



## **Control Module Reference Guide**

©Tightrope Media Systems  
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# 1 Introduction

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Thank you for purchasing products from Tightrope Media Systems! We have worked hard to make your new system versatile, easy to use and reliable.

## 1.1 What Does This Guide Cover?

This guide is designed as a reference for how to configure the Control Modules for your system.

## 1.2 What this Manual Does Not Cover

This manual does not include information on the setup of Cablecast, which is found in *Cablecast: The Manual*. There are extremely important concepts that are essential to the operation of your system. We do not cover them in this guide.

You should be familiar with the concepts in *Cablecast: The Manual*, especially the information in *One Thousand Miles Over Cablecast*.

Before digging into this guide, make sure you have read *Introduction and Planning* and *Initial Setup Walk-through: How Do I Set This Thing Up?* in *Cablecast: The Manual*.

## 1.3 Guide Conventions

Throughout this guide, the following conventions will be used:

### Notes, Tips and Warnings



This is a note. Notes are used to call attention to special information that may be helpful to keep in mind.



This is a tip. Tips show unique ways to use the software, and tricks that have been picked up by other users.



This is a warning. Warnings call attention to actions that may result in unforeseen consequences, such as actions that delete large amounts of data or configurations that might have network security implications.

**Interface Elements** Bold text indicates a user interface element, such as a menu item, field, button or label within the software.

*Example:* Click the **Save** button.

**User Input** The typewriter style indicates user input, such as text that should be entered into a form field.

*Example:* To log into Frontdoor, enter `localhost` into the browser's address field.

## 1.4 About Tightrope

Tightrope provides industry-leading media delivery systems for digital broadcast (Cablecast), digital signage (Carousel), and slow-motion instant replay (ZEPLAY). Our reliable tools do most of the work for you, so you can look like the hero every time. Where ease of use meets epic functionality, that's where you'll find Tightrope.

For more information on Tightrope Media Systems, please visit our web site: [www.trms.com](http://www.trms.com)

Email us at: [info@trms.com](mailto:info@trms.com)

Our Address is:

Tightrope Media Systems  
800 Transfer Road, Suite 1B  
Saint Paul, Minnesota 55114

For customer service, please contact your dealer or Tightrope Media Systems directly:

**Email :** [support@trms.com](mailto:support@trms.com)

**Support Request Form :** An online support request form is at [www.trms.com/cablecast/support](http://www.trms.com/cablecast/support).

**Knowledge Base :** [kb.trms.com](http://kb.trms.com)

**Blogs :** [blog.trms.com](http://blog.trms.com)

**Phone :** (866) 866-4118 / (612) 866-4118



The fastest way to get support is through email or the on-line support form.

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## **2 Cablecast Control Module Reference**

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## 2.1 AutoPatchBCSCM

Controls Autopatch routers that use the BCS protocol for control.

### 2.1.1 Supported Devices

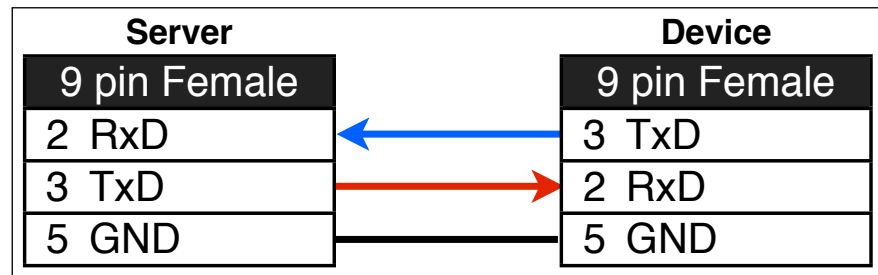
This Control Module is for use with video switchers manufactured by AMX formerly Autopatch. The following models have been tested:

- AMX Routers that use the BCS protocol
- Autopatch Routers that use the BCS protocol

### 2.1.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.1: RS-232 null modem cable



### 2.1.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.1.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : AutoPatchBCSCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank



**Sync Time** : OFF

### 2.1.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**AutoPatchLevels** : Sets the levels that should be included in switch commands and status requests. Specify a comma-delimited list of levels, such as 1,2,4 for levels 1, 2 and 4. Valid levels are 1 through 8.

**AutoPatchOutputs** : Sets the number of outputs that should be polled for status. For an 8x8 router enter '8'

### 2.1.6 Selecting this Control Module for Router control



**Location Settings: I/O: Router** : Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.2 BlackmagicVHCM

Controls Blackmagic Videhub routers through ethernet protocol

### 2.2.1 Supported Devices

This Control Module is for use with video switchers manufactured by Blackmagic Design. The following models have been tested:

- Videohub Family

### 2.2.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name :** A descriptive name, such as Router.

**Control Module :** Select the corresponding Host and Control Module

*Example:* localhost : BlackmagicVHCM

**Port/IP/Local Path :** Enter the IP address of the device

*Example:* 192.168.1.22

**Network Path :** Leave blank

**Auth :** Leave blank

**Sync Time :** OFF

### 2.2.3 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.3 BVSVC1CM

Controls the VC-1 V-Chip Line 21 Encoder.

### 2.3.1 Supported Devices

This Control Module is for use with V-Chip encoders manufactured by Broadcast Video Systems Corp (BVS). The following models have been tested:

- VC-1

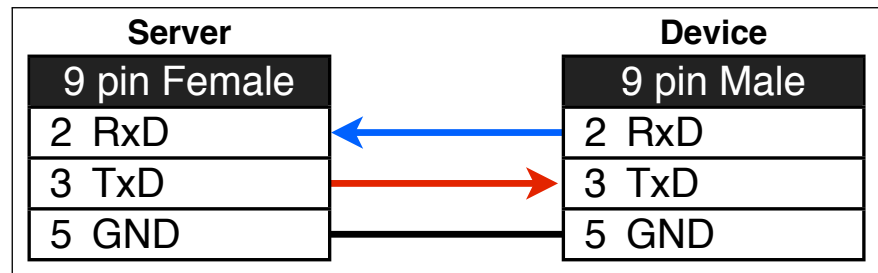


The VC-1 must be configed to accept RS-232 data. This is done by setting jumpers JP2, 3 and 5 on the encoder board as described in the VC-1 manual.

### 2.3.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.2: RS-232 straight through cable



### 2.3.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 38400 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.3.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as V-Chip encoder.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : BVSVC1CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.3.5 Selecting this Control Module for V-Chip control



Location Settings: I/O:  
Outputs

- Navigate to *Location Settings: I/O: Outputs*
- Select your channel output
- Select the Control Module Set you previously created from the **Rating CMS** list
- Click **Save** to commit the changes

## 2.4 CodanNKCM

Controls Codan routers that use the NK protocol.

### 2.4.1 Supported Devices

This Control Module is for use with video switchers manufactured by Codan Broadcast (now a part of Ross Video). The following models have been tested:

- All routers that use the NK protocol

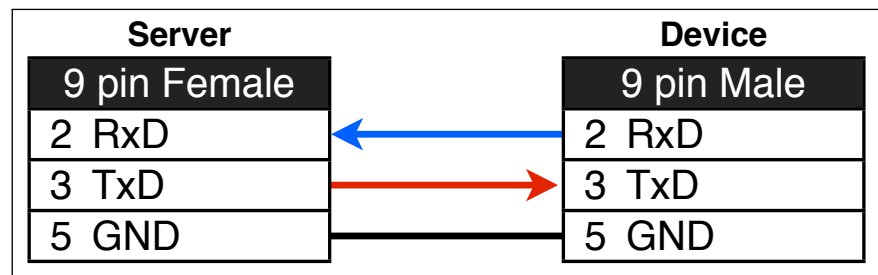


Newer Codan and Ross NK equipment must be controlled through the NK-SCP.

### 2.4.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.3: RS-232 straight through cable



### 2.4.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.4.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : CodanNKCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

#### 2.4.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**CodanNKCM-Outputs** : Set to the highest numbered output, between 1 and 255

**CodanNKCM-Levels** : Sets the levels that should be included in switch commands and status requests. Specify a comma-delimited list of levels, such as 1,2,4 for levels 1, 2 and 4. Valid levels are 1 through 8.

#### 2.4.6 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.5 DenonDBT3313UDCICM

Controls the DBT-3313UDCI single disc Blu-ray player. Note that this device does not support the JUMP command and should be configured as a Generic device.

### 2.5.1 Supported Devices

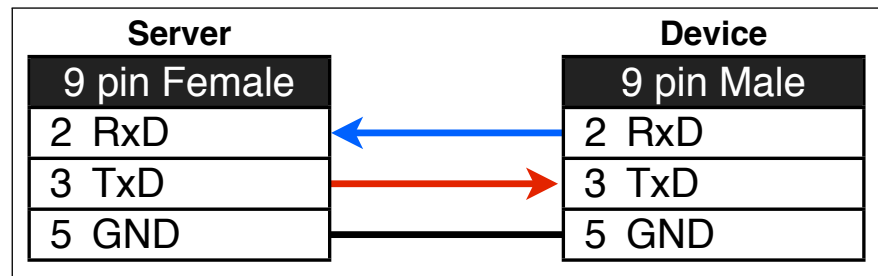
This Control Module is for use with DVD players manufactured by Denon Professional. The following models have been tested:

- DBT-3313UDCI

### 2.5.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.4: RS-232 straight through cable



### 2.5.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.5.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Denon Professional DVD.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : DenonDBT3313UDCICM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank

Sync Time : OFF

### 2.5.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.5.6 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : Generic
- Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.
- Take Delay** : We suggest 2 seconds
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Address** : The serial port that controls the device, e.g. 2
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.



## 2.6 DenonDVD2900CM

Controls the DVD-2900 single disc DVD player.

### 2.6.1 Supported Devices

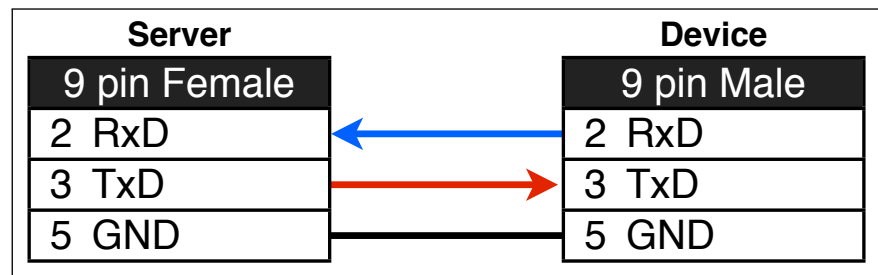
This Control Module is for use with DVD players manufactured by Denon. The following models have been tested:

- DVD-2900

### 2.6.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.5: RS-232 straight through cable



### 2.6.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.6.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Denon DVD.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : DenonDVD2900CM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

## 2.6.5 Creating a Device



**Location Settings: I/O: Devices**

Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called `New Input`. Click it to open the device settings.

## 2.6.6 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : DVD
- Jump Duration** : We suggest 15 seconds
- Take Delay** : We suggest 1 second
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Address** : The serial port that controls the device, e.g. 2
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.7 DenonV300CM

Controls the DN-V300 series single disc DVD players.

### 2.7.1 Supported Devices

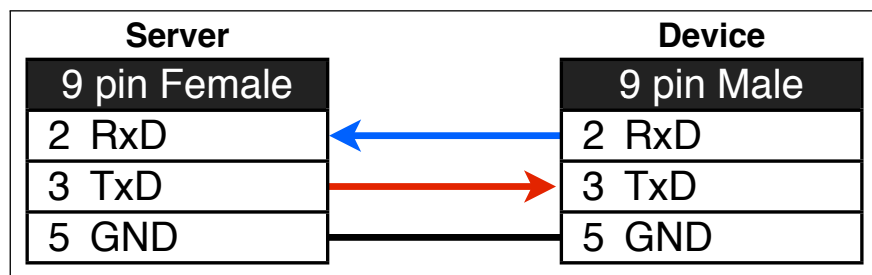
This Control Module is for use with DVD players manufactured by Denon Professional. The following models have been tested:

- DN-V300
- DN-V310

### 2.7.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.6: RS-232 straight through cable



### 2.7.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.7.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Denon Professional DVD.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : DenonV300CM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

## 2.7.5 Creating a Device



**Location Settings: I/O: Devices**

Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called `New Input`. Click it to open the device settings.

## 2.7.6 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : DVD
- Jump Duration** : We suggest 15 seconds
- Take Delay** : We suggest 1 second
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Address** : The serial port that controls the device, e.g. 2
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.8 DRStreamCM

Controls digital video encoders manufactured by Tightrope Media Systems that are based on the Digital Rapids Stream encoder cards.

### 2.8.1 Supported Devices

This Control Module is for use with digital video encoders manufactured by Tightrope Media Systems. The following models have been tested:

- ENC-106

### 2.8.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Encoder.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : DRStreamCM

**Port/IP/Local Path** : Enter the drive to which this video server should record

*Example:* E:\

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.8.3 Creating a Device



**Location Settings: I/O:** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.8.4 Device Settings

Enter the following information:

**Name** : A descriptive name for your device

**Device Function** : Record only

**Device Type** : Digital File

**Take Delay** : We suggest 0 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : 0

**Device Formats** : Select a suitable format.

**Device End Actions** : StopRecord

**Router Output** : The router output to which this device is connected, e.g. 3

**Record Quality** : Select what codec you want to use for recordings on this device

**Record Copy UNC** : Leave blank. See the Cablecast manual for more information.

Click **Save** to complete the configuration of your new device.

## 2.9 Evertz8084ADCM

Controls the 8084AD Closed Caption encoder only for inserting V-Chip data.

### 2.9.1 Supported Devices

This Control Module is for use with V-Chip encoders manufactured by Evertz. The following models have been tested:

- 8084AD

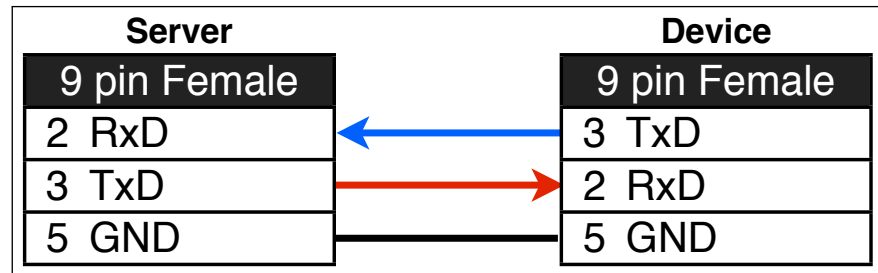


The device must be configured to use the baud rate and parity described below.

### 2.9.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.7: RS-232 null modem cable



### 2.9.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

- Baud Rate** : 9600 baud
- Stop Bits** : One
- Byte Size** : 8 bits
- Parity** : None
- Flow Control** : Software (XOn - XOff)

### 2.9.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

- CMS Name** : A descriptive name, such as V-Chip encoder.
- Control Module** : Select the corresponding Host and Control Module
- Example:* localhost : Evertz8084ADCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.9.5 Selecting this Control Module for V-Chip control



Location Settings: I/O:  
Outputs

- Navigate to *Location Settings: I/O: Outputs*
- Select your channel output
- Select the Control Module Set you previously created from the **Rating CMS** list
- Click **Save** to commit the changes



## 2.10 ExtronISSCM

Controls Extron seamless switchers with two outputs.

### 2.10.1 Supported Devices

This Control Module is for use with video switchers manufactured by Extron Electronics. The following models have been tested:

- ISG 506
- ISS 408
- SGS 408

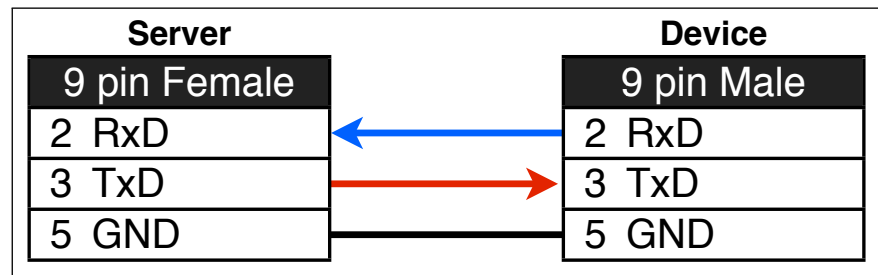


This control module works only with the specified models.

### 2.10.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.8: RS-232 straight through cable



### 2.10.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.10.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : ExtronISSCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.10.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router    Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.11 ExtronMAVCM

Controls Extron MAV series routers that use the SIS protocol.

### 2.11.1 Supported Devices

This Control Module is for use with video switchers manufactured by Extron Electronics. The following models have been tested:

- MAV 88 AV
- MAV 88 AV RCA

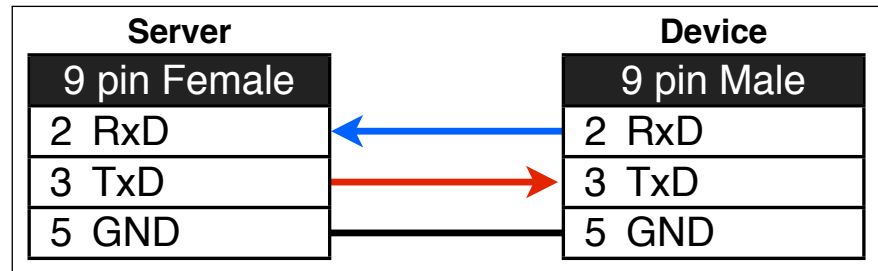


The ExtronMAVPlusCM should also control these routers. The two control modules differ in the way they interpret router status. If this Control Module does not work as you expect, please try the ExtronMAVPlusCM.

### 2.11.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.9: RS-232 straight through cable



### 2.11.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.11.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : ExtronMAVCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.11.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router    Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.12 ExtronMAVPlusCM

Controls Extron MAV Plus series routers that use the SIS protocol.

### 2.12.1 Supported Devices

This Control Module is for use with video switchers manufactured by Extron Electronics. The following models have been tested:

- MAV Plus 1212 AV
- MAV Plus 4848 AV

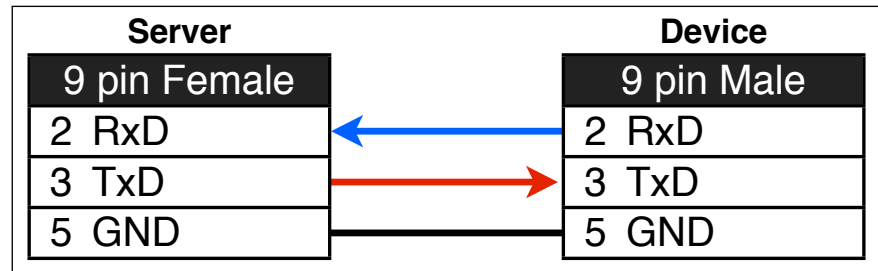


The ExtronMAVCM should also control these routers. The two control modules differ in the way they interpret router status. If this Control Module does not work as you expect, please try the ExtronMAVCM.

### 2.12.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.10: RS-232 straight through cable



### 2.12.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.12.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : ExtronMAVPlusCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.12.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router    Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.13 ExtronSWCM

Controls Extron SW series switchers.

### 2.13.1 Supported Devices

This Control Module is for use with video switchers manufactured by Extron Electronics. The following models have been tested:

- SW 12AV RCA
- SW 6AV

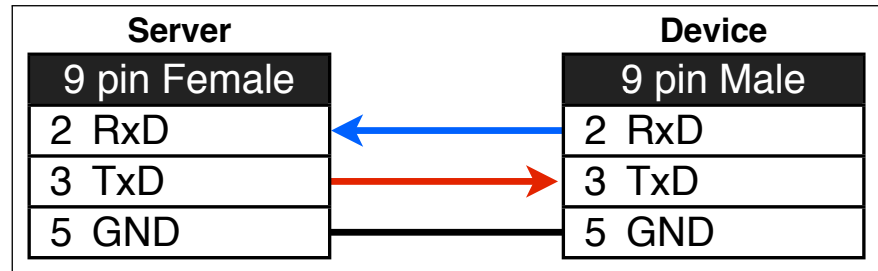


The ExtronSWCM will only control single-output switchers. If you are trying to control a routing switcher with more than one output, check out the ExtronMAVPlusCM

### 2.13.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.11: RS-232 straight through cable



### 2.13.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.13.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : ExtronSWCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.13.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router    Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.



## **2.14 GenericCM**

This is a diagnostic control module. It does not control any devices and serves no function aside from development and testing.

## 2.15 GrassValleyNPCM

Control for Routers that use the Grass Valley Native Protocol (aka Series 7000)

### 2.15.1 Supported Devices

This Control Module is for use with video switchers manufactured by Grass Valley Native Protocol. The following models have been tested:

- AJA KUMO Series Routers



This Control Module should work with any router that is controlled by the Grass Valley Native Protocol. This control module has only been tested against the KUMO routers by AJA and the Ross NK-3RD protocol converter. When using the Ross NK-3RD the "GrassValleyNPCM-UseHex" config must be set to "True"

### 2.15.2 Physical Connections

You will need an available RS-422 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

The cable required for this device depends upon what type of RS-422 port you are using.

FIGURE 2.12: Quatech RS-422 cable

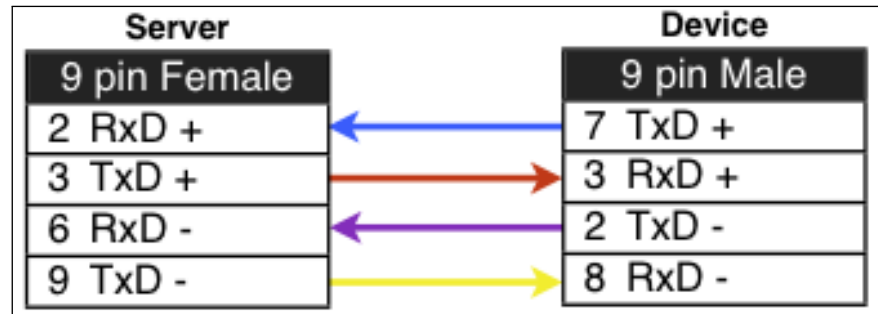
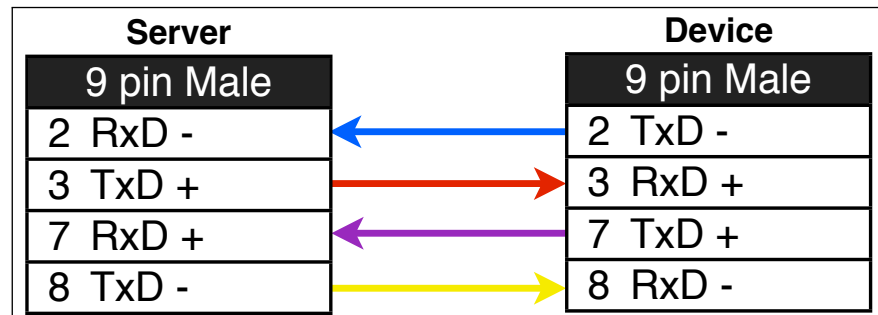


FIGURE 2.13: Blastronix RS-422 cable



### 2.15.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 38400 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.15.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : GrassValleyNPCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.15.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**GrassValleyNPCM-Baud-Rate** : The baud rate for this device. Default is 38400.

**GrassValleyNPCM-Outputs** : Comma delimited list of outputs. These outputs will be used for requesting crosspoint status. Default is 0 through 15 i.e. (0,1,2,3...)

**GrassValleyNPCM-UseHex** : Configures the router to use hexadecimal when parsing sources and destinations. This setting depends on the manufacturer of your router. Default is False

### 2.15.6 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.16 IntegraDPCCM

Controls DPC series DVD changers.

### 2.16.1 Supported Devices

This Control Module is for use with DVD changers manufactured by Integra. The following models have been tested:

- The DPC series of DVD changers

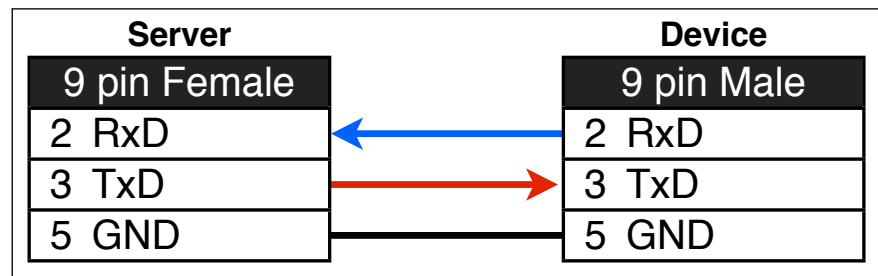


The Integra protocol does not support a jump command. Playback will always start at title 1, chapter 1.

### 2.16.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.14: RS-232 straight through cable



### 2.16.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.16.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Integra DVD Changer.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : IntegraDPCCM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank

**Auth** : Leave blank  
**Sync Time** : OFF

### 2.16.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**IntegraForceStop** : Set this to true if you are having problems with auto-start discs in this changer

### 2.16.6 Creating a Device



**Location Settings: I/O: Devices**

Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.16.7 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : DVD (Multidisc)
- Load Duration** : We suggest 30 seconds
- Jump Duration** : We suggest 15 seconds
- Take Delay** : We suggest 1 second
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Slots** : 1 to 6
- Device Address** : The serial port that controls the device, e.g. 2
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.17 JupiterASCIICM

Controls routers that use the Jupiter ASCII protocol.

### 2.17.1 Supported Devices

This Control Module is for use with video switchers manufactured by Phillips Broadcast (now a part of Grass Valley). The following models have been tested:

- Routers that use the Jupiter ASCII protocol

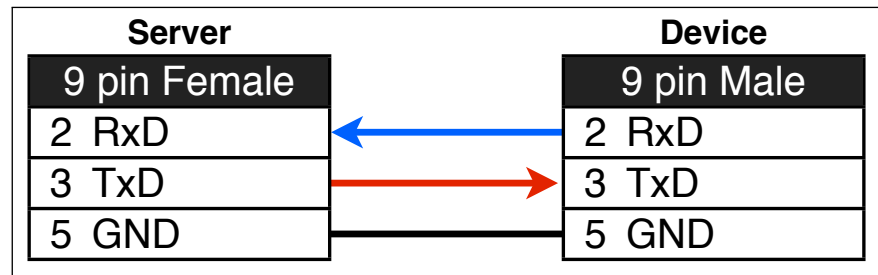


Router size is limited to 1000 inputs and 1000 outputs (000-999) and seven levels.

### 2.17.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.15: RS-232 straight through cable



### 2.17.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : Software (XOn - XOff)

### 2.17.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : JupiterASCIICM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.17.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**JupiterASCIICM-Levels** : A comma-delimited list of levels that should be switched. The first value will be used for status requests.

**JupiterASCIICM-Outputs** : A comma-delimited list of outputs that should be included in status requests

### 2.17.6 Selecting this Control Module for Router control



**Location Settings: I/O: Router** : Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.18 JVC SRMV232CM

Controls DVD / VHS / Mini-DV combo decks from JVC.

### 2.18.1 Supported Devices

This Control Module is for use with combo decks manufactured by JVC. The following models have been tested:

- SR-DVM600
- SR-DVM70
- SR-MV45
- SR-MV50
- SR-MV55

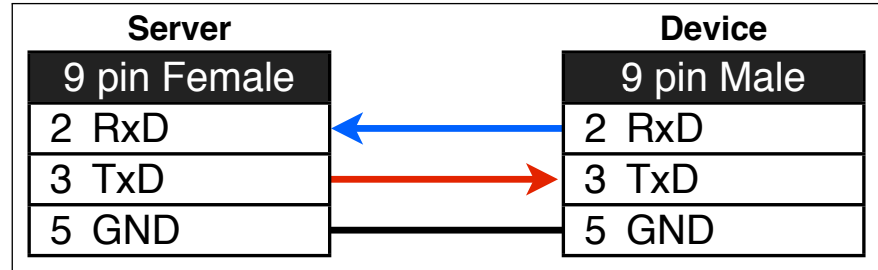


This control module can't switch the mode of the device. So, a play command will be sent to whatever mechanism is currently controlled. If you are using the tape portion of the deck you should set the Device Type to Generic. Some decks may need a null-modem cable.

### 2.18.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.16: RS-232 straight through cable



### 2.18.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.18.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:



**CMS Name** : A descriptive name, such as JVC Combo Deck.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : JVCSRMV232CM

**Port/IP/Local Path** : Leave blank

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.18.5 Creating a Device



**Location Settings: I/O: Devices** : Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.18.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : DVD

**Jump Duration** : We suggest 15 seconds

**Take Delay** : We suggest 1 second

**Post Roll** : We suggest 5 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : The serial port that controls the device, e.g. 2

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.19 JVC SRS365UCM

Controls S-VHS decks from JVC.

### 2.19.1 Supported Devices

This Control Module is for use with timecode VTRs manufactured by JVC. The following models have been tested:

- SR-365U

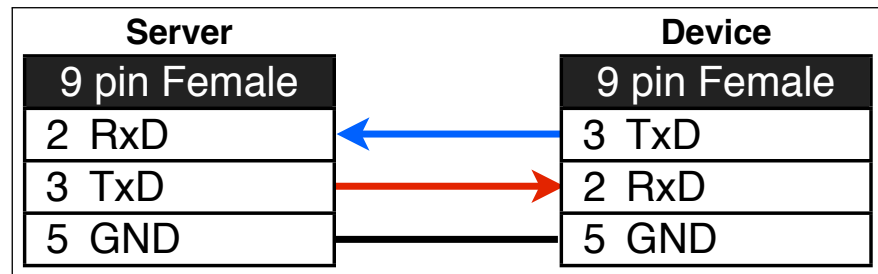


The Control Mode switch under the front flap must be set to RS232

### 2.19.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.17: RS-232 null modem cable



### 2.19.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.19.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as JVC VTR.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : JVC SRS365UCM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank

**Auth** : Leave blank  
**Sync Time** : OFF

### 2.19.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.19.6 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : VTR
- Jump Duration** : We suggest 60 seconds
- Take Delay** : We suggest 2 seconds
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Address** : The serial port that controls the device, e.g. 2
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.20 Knox256CM

Controls Knox routers that have more than 99 inputs and outputs.

### 2.20.1 Supported Devices

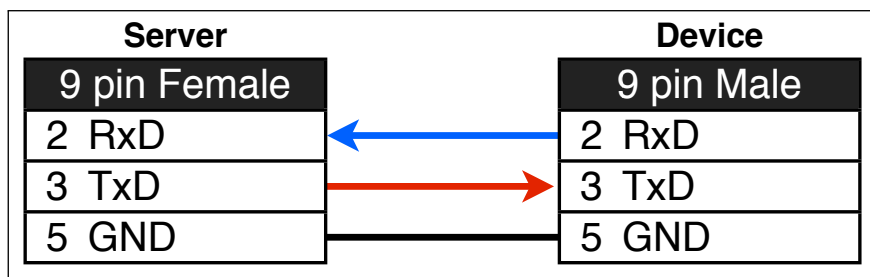
This Control Module is for use with video switchers manufactured by Knox Video Technologies. The following models have been tested:

- Chameleon256

### 2.20.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.18: RS-232 straight through cable



### 2.20.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.20.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : Knox256CM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.20.5 Selecting this Control Module for Router control



Location Settings: I/O:  
Router

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.21 Knox64CM

Controls modular routing switchers with up to 99 inputs and outputs.

### 2.21.1 Supported Devices

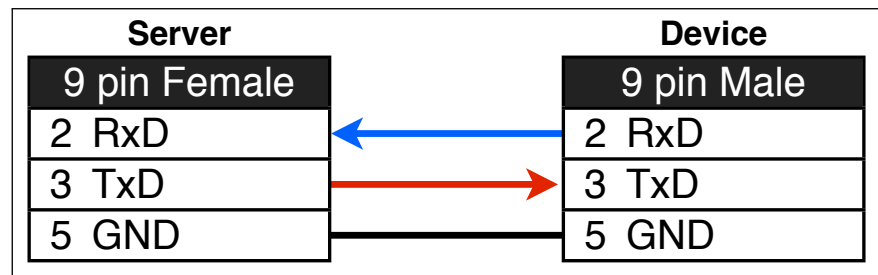
This Control Module is for use with video switchers manufactured by Knox Video Technologies. The following models have been tested:

- Chameleon
- Chameleon64
- Chameleon64i
- RS 16x16
- RSII Series

### 2.21.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.19: RS-232 straight through cable



### 2.21.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.21.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : Knox64CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.21.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.22 Knox8CM

Controls Knox routers that have less than 10 inputs and outputs.

### 2.22.1 Supported Devices

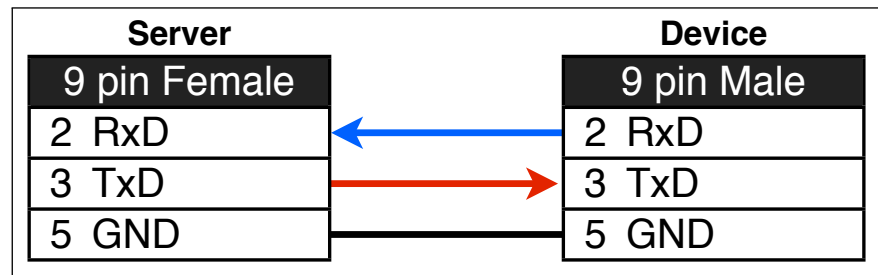
This Control Module is for use with video switchers manufactured by Knox Video Technologies. The following models have been tested:

- RS 4x4
- RS 8x8

### 2.22.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.20: RS-232 straight through cable



### 2.22.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.22.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : Knox8CM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank



**Sync Time : OFF**

### **2.22.5 Selecting this Control Module for Router control**



**Location Settings: I/O:  
Router**

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.23 KnoxProSwitchCM

Controls Knox ProSwitch series routers.

### 2.23.1 Supported Devices

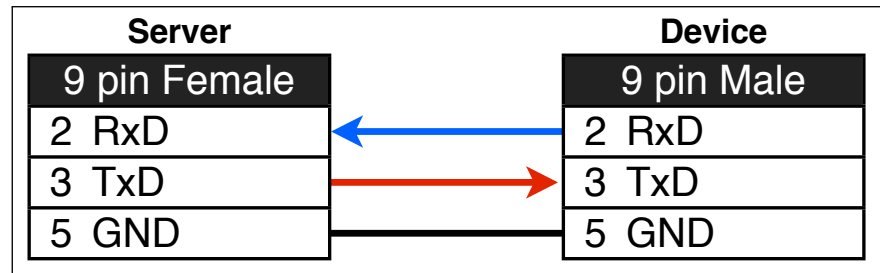
This Control Module is for use with video switchers manufactured by Knox Video Technologies. The following models have been tested:

- ProSwitch series

### 2.23.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.21: RS-232 straight through cable



### 2.23.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.23.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : KnoxProSwitchCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.23.5 Selecting this Control Module for Router control



Location Settings: I/O:  
Router

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.24 KnoxSDICM

Controls SDI routing switchers.

### 2.24.1 Supported Devices

This Control Module is for use with video switchers manufactured by Knox Video Technologies. The following models have been tested:

- SDI 8x8

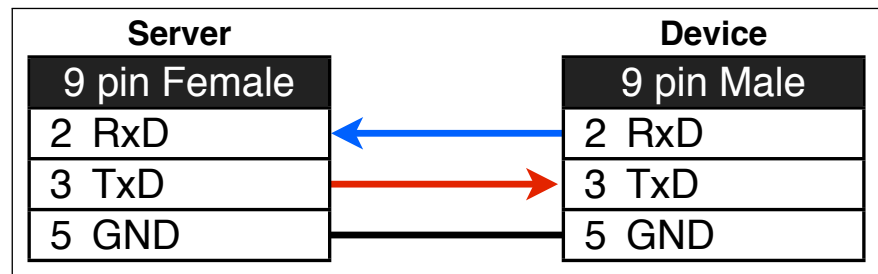


You should disable 'Verbose' mode on the router by setting DIP switch #3 to OFF

### 2.24.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.22: RS-232 straight through cable



### 2.24.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.24.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : KnoxSDICM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

#### 2.24.5 Selecting this Control Module for Router control



**Location Settings: I/O: Router** Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.25 Kramer2000CM

Controls Kramer routers that are controllable using Protocol 2000.

### 2.25.1 Supported Devices

This Control Module is for use with video switchers manufactured by Kramer Electronics. The following models have been tested:

- Routers that use 'Protocol 2000'

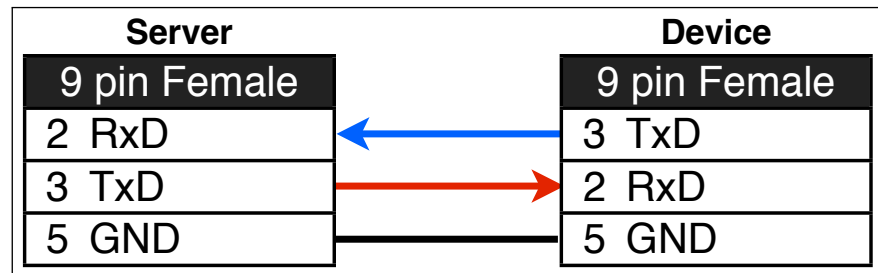


These routers allow you to set a 'Machine ID', Cablecast always controls Machine ID 1. Please make sure your router is set accordingly. For information on how to change the Machine ID, please consult the router's documentation.

### 2.25.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.23: RS-232 null modem cable



### 2.25.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.25.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : Kramer2000CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.25.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**Kramer2000CMOutputs** : This setting allows you to set the total number of outputs on the router (i.e. '8'). If you don't set this, cablecast will assume there are 100 outputs. Setting this to the actual number of outputs will make the force menu load faster.

**Kramer2000CMUseBreakawayMode** : Setting this to 'true' will cause switches to be executed in breakaway mode. A 'Disable Breakaway' command will be sent, followed by a 'Switch Video' and a 'Switch Audio'. If set to 'false', a 'EnableBreakaway' command will be sent, followed by a 'Switch Video' command.

**Kramer2000CMIgnoreBreakawayMode** : Setting this to 'true' will cause switches to be executed as a 'Switch Video' command followed by a 'Switch Audio' command.

**Kramer2000IgnoreAudioEvents** : When Kramer2000CMIgnoreBreakawayMode is set to 'false' and Kramer2000CMUseBreakawayMode is set to 'true', this will cause the 'Switch Audio' command to be skipped.

### 2.25.6 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.26 LeitchRouterCM

Controls Leitch and Harris routers that use the XY protocol.

### 2.26.1 Supported Devices

This Control Module is for use with video switchers manufactured by Leitch (now part of Harris). The following models have been tested:

- Routers that support XY protocol

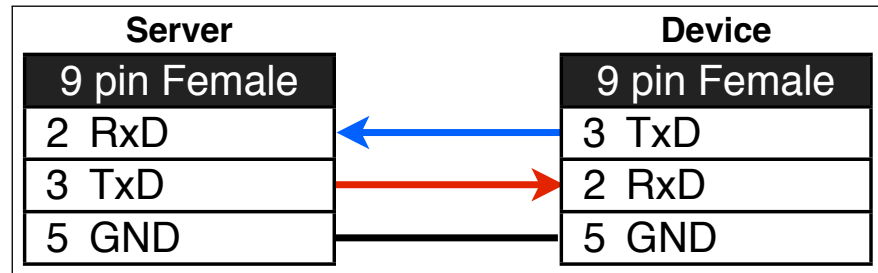


The LeitchTerminalProtocolCM may also be able to control your router. If the PortSetting field is defined as an integer serial control will be attempted. Otherwise the PortSetting field will be used as a network address to control the router via TCP IP

### 2.26.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.24: RS-232 null modem cable



### 2.26.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.26.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LeitchRouterCM



**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.26.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**LeitchRouterCM-Levels** : Comma delimited list of levels to switch. Example 0,1,2. If "LeitchRouterCM-Outputs" is defined the first defined level will be used for status.

**LeitchRouterCM-EnableReporting** : Setting this to 'true' will cause an Enable reporting "@ ?:" command to be sent before router status is requested.

**LeitchRouterCM-Outputs** : Comma delimited list of outputs to poll for status. If undefined, "@ S?0" will be used, which may not be supported on all devices.

### 2.26.6 Selecting this Control Module for Router control



**Location Settings: I/O: Router** : Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.27 LeitchRS12ACM

Controls Videotek or Leitch RS-12A routers.

### 2.27.1 Supported Devices

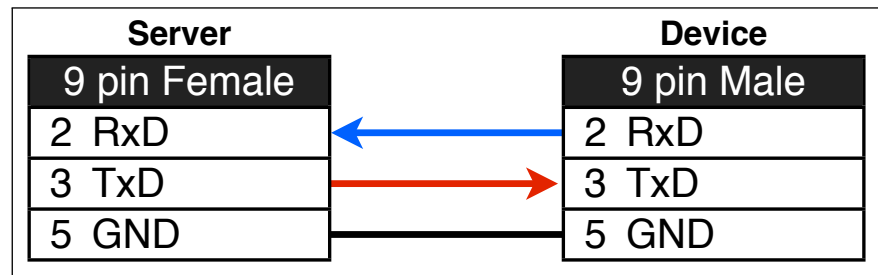
This Control Module is for use with video switchers manufactured by Videotek or Leitch (both now part of Harris). The following models have been tested:

- RS-12A

### 2.27.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.25: RS-232 straight through cable



### 2.27.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 7 bits  
**Parity** : Odd  
**Flow Control** : None

### 2.27.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LeitchRS12ACM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank

**Sync Time : OFF**

### **2.27.5 Selecting this Control Module for Router control**



**Location Settings: I/O:  
Router**

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.28 LeitchTerminalProtocolCM

Controls Leitch and Harris routers that use Leitch Terminal protocol.

### 2.28.1 Supported Devices

This Control Module is for use with video switchers manufactured by Leitch (now part of Harris). The following models have been tested:

- Routers that support Leitch Terminal protocol

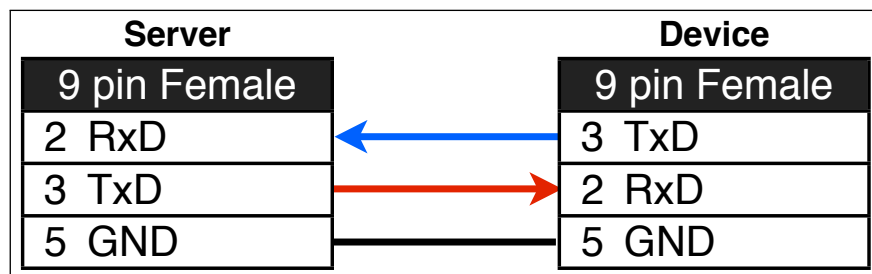


The LeitchRouterCM may also be able to control your router.

### 2.28.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.26: RS-232 null modem cable



### 2.28.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.28.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LeitchTerminalProtocolCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.28.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**LeitchTerminalProtocolCM-Levels** : Sets the Level(s) that should be switched

### 2.28.6 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.29 LgxMiniTProCM

Controls Mini-T Pro event controllers. Does not support Mini-T NX units.

### 2.29.1 Supported Devices

This Control Module is for use with event controllers manufactured by Leightronix. The following models have been tested:

- Mini-T Pro

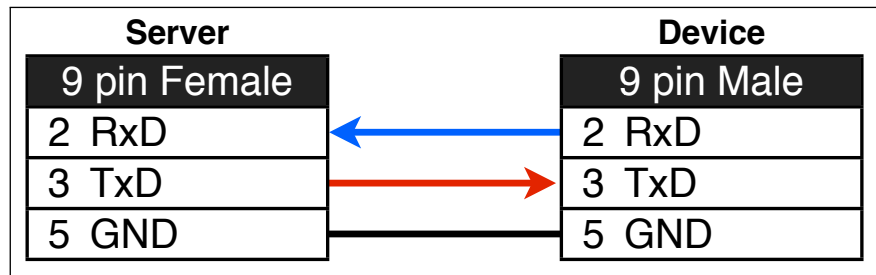


The Mini-T Pro is both a routing switcher, and a device controller. The following Device configuration instructions indicate how to configure a generic VTR for control.

### 2.29.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.27: RS-232 straight through cable



### 2.29.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.29.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Mini-T Pro.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LgxMiniTProCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.29.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*.



You don't need to use the built-in routing switcher.

Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

### 2.29.6 Creating a Device



**Location Settings: I/O:** Devices Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.29.7 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.

**Take Delay** : We suggest 2 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : For ProBus devices: the device ID, such as 3.

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.30 LgxMVP2000CM

Controls MVP-2000 event controllers.

### 2.30.1 Supported Devices

This Control Module is for use with devices manufactured by Leightronix. The following models have been tested:

- MVP-2000



Cablecast 5.0 and later only supports the MVP-2000's device control features.

### 2.30.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as MVP-2000.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : LgxMVP2000CM

**Port/IP/Local Path** : Enter the IP address of the device

*Example:* 192.168.1.22

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.30.3 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.30.4 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.

**Take Delay** : We suggest 0 seconds



**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : For ProBus devices: the device ID, such as 3.

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.31 LgxPro16CM

Controls Pro-16 event controllers.

### 2.31.1 Supported Devices

This Control Module is for use with event controllers manufactured by Leightronix. The following models have been tested:

- Pro-16

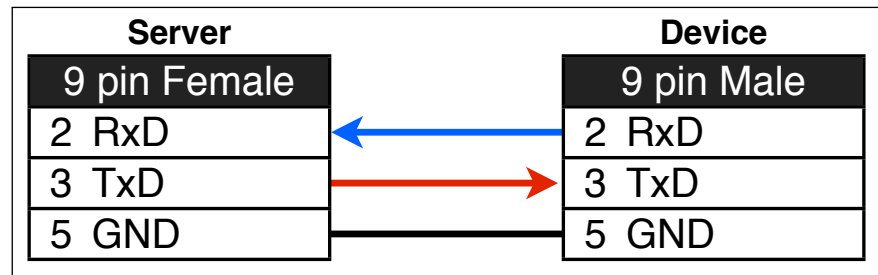


The Pro-16 is both a routing switcher, and a device controller. The following Device configuration instructions indicate how to configure a generic VTR for control.

### 2.31.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.28: RS-232 straight through cable



### 2.31.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.31.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Pro-16.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LgxPro16CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.31.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*.



You don't need to use the built-in routing switcher.

Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

### 2.31.6 Creating a Device



**Location Settings: I/O:** Devices Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.31.7 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.

**Take Delay** : We suggest 2 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : For ProBus devices: the device ID, such as 3.

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.32 LgxPro8CM

Controls Pro-8 event controllers.

### 2.32.1 Supported Devices

This Control Module is for use with event controllers manufactured by Leightronix. The following models have been tested:

- Pro-8

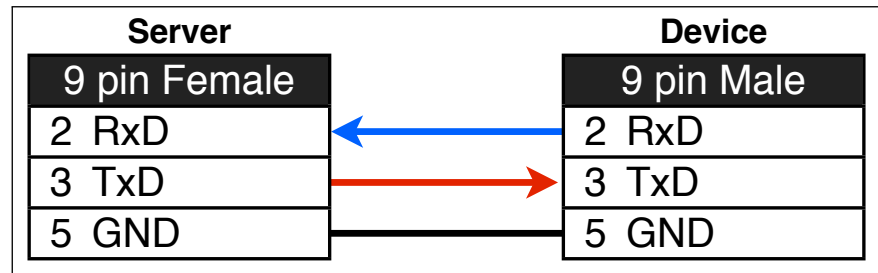


The Pro-8 is both a routing switcher, and a device controller. The following Device configuration instructions indicate how to configure a generic VTR for control.

### 2.32.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.29: RS-232 straight through cable



### 2.32.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.32.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Pro-8.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LgxPro8CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.32.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*.



You don't need to use the built-in routing switcher.

Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

### 2.32.6 Creating a Device



**Location Settings: I/O:** Devices Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.32.7 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.

**Take Delay** : We suggest 2 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : For ProBus devices: the device ID, such as 3.

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.33 LgxTCD1000CM

Controls TCD-1000 event controllers.

### 2.33.1 Supported Devices

This Control Module is for use with devices manufactured by Leightronix. The following models have been tested:

- TCD-1000

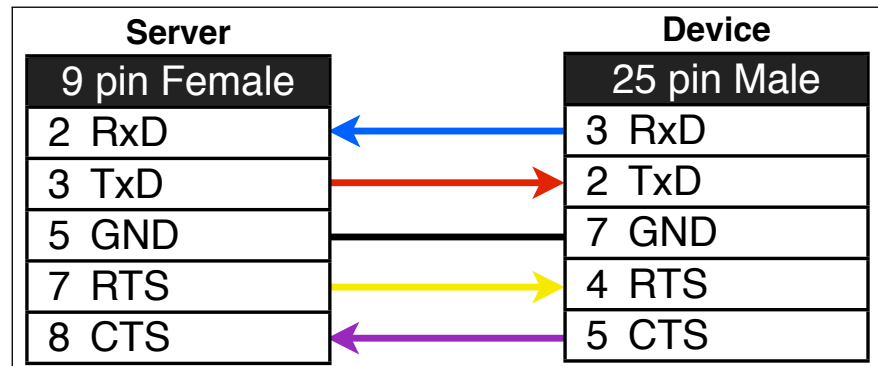


The TCD-1000 can control multiple devices using its ProBus and LGX connections..

### 2.33.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DB-25 connector.

**FIGURE 2.30:** RS-232 9 to 25 pin straight through cable



### 2.33.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 38400 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.33.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as TCD-1000.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LgxTCD1000CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.33.5 Creating a Device



**Location Settings: I/O: Devices**

Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.33.6 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.

**Take Delay** : We suggest 0 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : For ProBus devices: the device ID, such as 3.

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.34 LgxTCDIPCM

Controls TCD-IP event controllers.

### 2.34.1 Supported Devices

This Control Module is for use with devices manufactured by Leightronix. The following models have been tested:

- TCD-IP



The TCD-IP is a device controller. The following Device configuration instructions indicate how to configure it to control a generic VTR..

### 2.34.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as TCD-IP.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : LgxTCDIPCM

**Port/IP/Local Path** : Enter the IP address of the device

*Example:* 192.168.1.22

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.34.3 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.34.4 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.



**Take Delay** : We suggest 0 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : For ProBus devices: the device ID, e.g. 4. For PlusBus devices: the device symbol, e.g. PLUSBUS DVDCHG01.

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.35 LinkAVSCM

Controls AVS series single-output switchers

### 2.35.1 Supported Devices

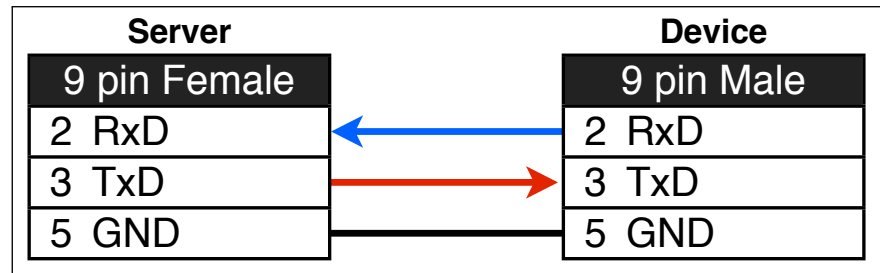
This Control Module is for use with video switchers manufactured by Link Electronics. The following models have been tested:

- AVS-816

### 2.35.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.31: RS-232 straight through cable



### 2.35.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.35.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : LinkAVSCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.35.5 Selecting this Control Module for Router control



**Location Settings: I/O: Router** Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## **2.36 LiveCM**

This is a diagnostic control module. It does not control any devices and serves no function aside from development and testing.

## 2.37 NCBCM

Controls Nevion Routers that use the NCB Protocol

### 2.37.1 Supported Devices

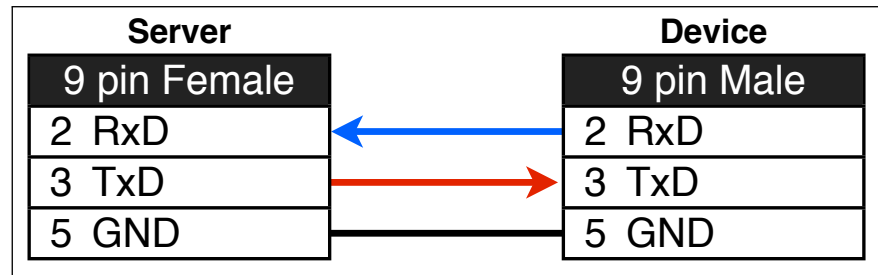
This Control Module is for use with video switchers manufactured by NCB. The following models have been tested:

- 

### 2.37.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.32: RS-232 straight through cable



### 2.37.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 19200 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.37.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : NCBCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.37.5 Selecting this Control Module for Router control



Location Settings: I/O:  
Router

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.38 NV9000CM

Controls Miranda routers that are controllable using NVision 9000 protocol.

### 2.38.1 Supported Devices

This Control Module is for use with video switchers manufactured by NVision. The following models have been tested:

- Routers that use 'NV9000 Protocol'

### 2.38.2 Physical Connections

You will need an available RS-422 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

The cable required for this device depends upon what type of RS-422 port you are using.

FIGURE 2.33: Quatech RS-422 cable

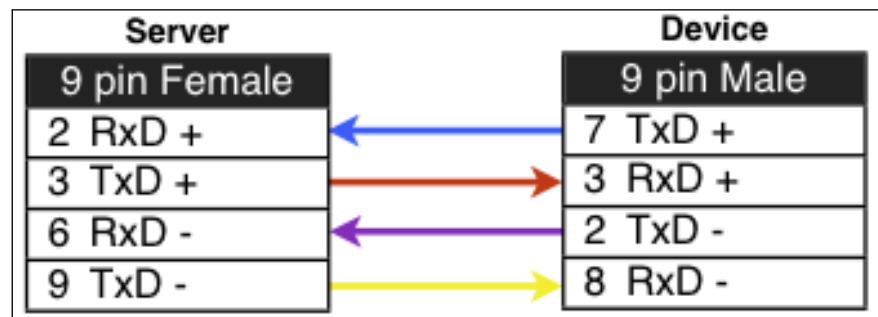
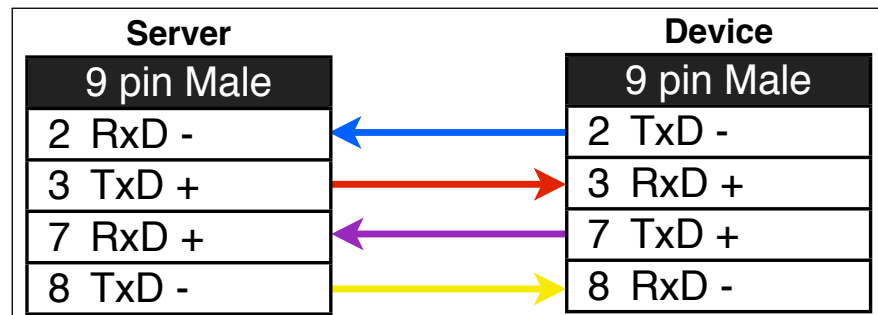


FIGURE 2.34: Blastronix RS-422 cable



### 2.38.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 38400 baud

**Stop Bits** : One

**Byte Size** : 8 bits

**Parity** : None  
**Flow Control** : None

#### 2.38.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : NV9000CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

#### 2.38.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**NV9000-Outputs** : A comma delimited list of outputs to poll for status. Example: 1,4,9

**NV9000-Level** : Level to which switch and status commands will be addressed.

#### 2.38.6 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.



## 2.39 OntrakADRCM

Allows control of contact closure compatible devices.

### 2.39.1 Supported Devices

This Control Module is for use with devices manufactured by Ontrak. The following models have been tested:

- ADR2200
- ADR2205

### 2.39.2 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 0 bits  
**Parity** : None  
**Flow Control** : None

### 2.39.3 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as ADR2200.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : OntrakADRCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

## 2.40 PanasonicAG5700CM

Controls S-VHS decks from Panasonic.

### 2.40.1 Supported Devices

This Control Module is for use with timecode VTRs manufactured by Panasonic. The following models have been tested:

- AG-5700

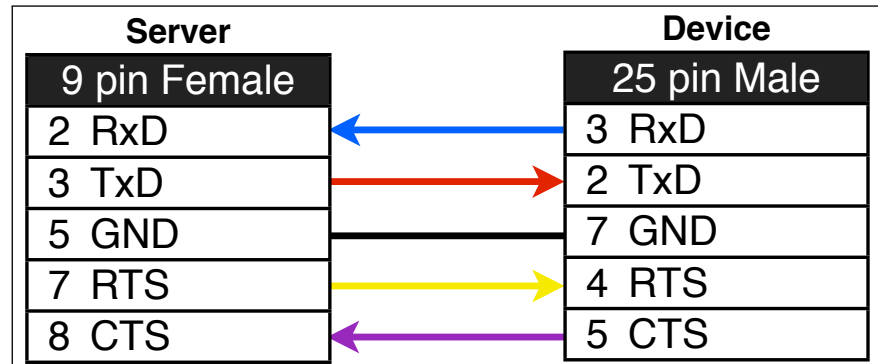


The Local/Remote switch on the front panel must be set to Remote

### 2.40.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DB-25 connector.

FIGURE 2.35: RS-232 9 to 25 pin straight through cable



### 2.40.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 7 bits  
**Parity** : Odd  
**Flow Control** : None

### 2.40.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Panasonic VTR.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : PanasonicAG5700CM

**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

#### 2.40.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

#### 2.40.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : VTR  
**Jump Duration** : We suggest 60 seconds  
**Take Delay** : We suggest 2 seconds  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.41 PanasonicAGIA232TCCM

Controls S-VHS decks from Panasonic.

### 2.41.1 Supported Devices

This Control Module is for use with timecode VTRs manufactured by Panasonic. The following models have been tested:

- Decks with the AG-IA232TC Module installed

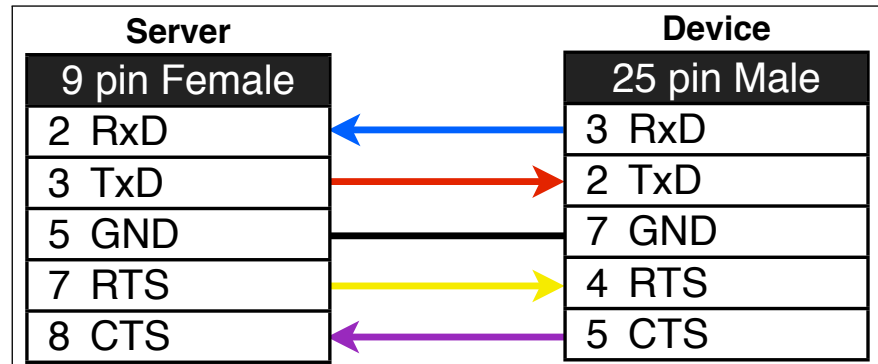


The Local/Remote switch on the front panel must be set to Remote

### 2.41.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DB-25 connector.

FIGURE 2.36: RS-232 9 to 25 pin straight through cable



### 2.41.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 1200 baud  
**Stop Bits** : One  
**Byte Size** : 7 bits  
**Parity** : Odd  
**Flow Control** : None

### 2.41.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Panasonic VTR.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : PanasonicAGIA232TCCM

**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.41.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.41.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : VTR  
**Jump Duration** : We suggest 60 seconds  
**Take Delay** : We suggest 2 seconds  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.42 PanasonicAJD450CM

Controls DVCPRO decks from Panasonic.

### 2.42.1 Supported Devices

This Control Module is for use with timecode VTRs manufactured by Panasonic. The following models have been tested:

- AJ-DV440P
- AJ-DV450P

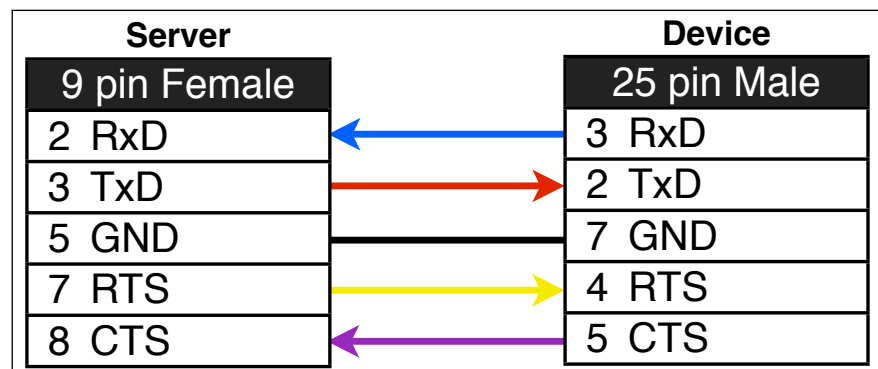


The Local/Remote switch on the front panel must be set to Remote

### 2.42.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DB-25 connector.

FIGURE 2.37: RS-232 9 to 25 pin straight through cable



### 2.42.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.42.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Panasonic VTR.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : PanasonicAJD450CM

**Port/IP/Local Path** : Leave blank

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.42.5 Creating a Device



**Location Settings: I/O: Devices** : Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.42.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : VTR

**Jump Duration** : We suggest 60 seconds

**Take Delay** : We suggest 1 second

**Post Roll** : We suggest 5 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : The serial port that controls the device, e.g. 2

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.43 PesaP1CM

Controls Pesa routers that use the P1 protocol.

### 2.43.1 Supported Devices

This Control Module is for use with video switchers manufactured by Pesa Switching Systems. The following models have been tested:

- Routers that use the P1 protocol

### 2.43.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

### 2.43.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : Hardware

### 2.43.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : PesaP1CM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.43.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**



Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**PesaLevels** : Defines the number of levels that the router has. For example, a router with video and stereo audio would have 3 levels.

**PesaOutputs** : Defines the number of outputs that the router has. Status will only be requested for this many outputs. If your router is 8x8, set this to 8.

#### 2.43.6 Selecting this Control Module for Router control



Location Settings: I/O:  
Router

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.44 PioneerDVDV5000CM

Controls DVD Players from Pioneer.

### 2.44.1 Supported Devices

This Control Module is for use with DVD players manufactured by Pioneer Electronics. The following models have been tested:

- DVD-V5000

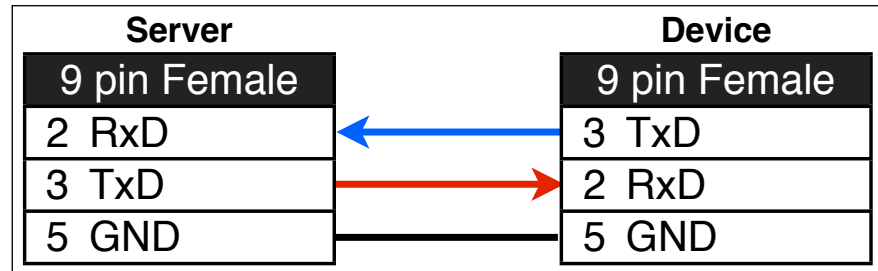


There is a menu setting that should be checked. With no disc in the player, press and hold the HOME MENU button until the settings menu comes up. Ensure that 9-pin is selected for SERIAL PORT, and that the BAUD RATE is set to 19200

### 2.44.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.38: RS-232 null modem cable



### 2.44.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 19200 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.44.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Pioneer Electronics DVD.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : PioneerDVDV5000CM

**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

#### 2.44.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

#### 2.44.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : DVD  
**Jump Duration** : We suggest 15 seconds  
**Take Delay** : We suggest 1 second  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.45 PioneerDVDV7400CM

Controls Industrial DVD Players decks from Pioneer.

### 2.45.1 Supported Devices

This Control Module is for use with DVD players manufactured by Pioneer Electronics. The following models have been tested:

- DVD-V7400

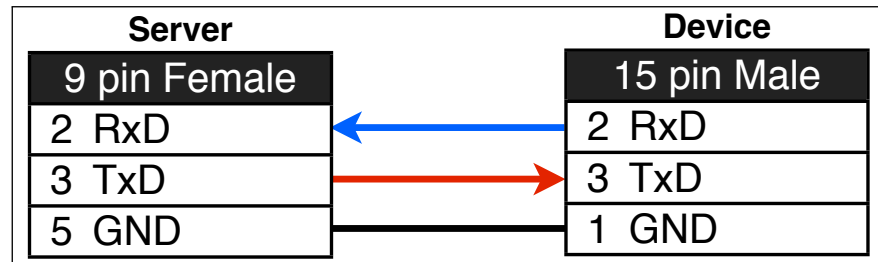


There is a menu setting that should be checked. Press and hold the SETUP button for one second, the ADVSETUP menu should appear. Ensure that BAUD RATE is set to 4800bps

### 2.45.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DA-15 connector.

FIGURE 2.39: Pioneer RS-232 cable



### 2.45.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 4800 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.45.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Pioneer Electronics DVD.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : PioneerDVDV7400CM

**Port/IP/Local Path** : Leave blank

**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.45.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.45.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : DVD  
**Jump Duration** : We suggest 15 seconds  
**Take Delay** : We suggest 1 second  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.46 PioneerDVF07CM

Controls DV-F07 300 disc DVD changers.

### 2.46.1 Supported Devices

This Control Module is for use with DVD changers manufactured by Pioneer Electronics. The following models have been tested:

- DV-F07

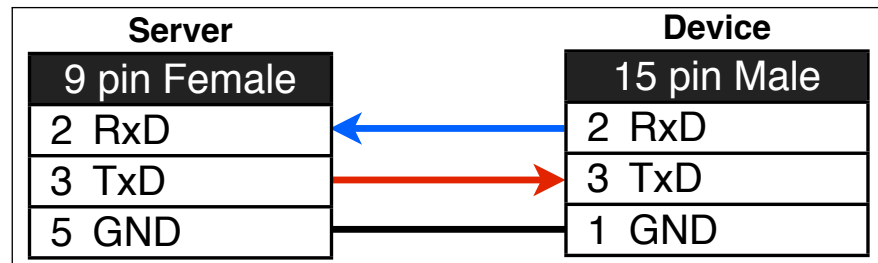


Stick-on DVD labels will cause serious damage to your DVD changer. We strongly suggest purchasing printable DVDs.

### 2.46.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DA-15 connector.

FIGURE 2.40: Pioneer RS-232 cable



### 2.46.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.46.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Pioneer Electronics DVD Changer.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : PioneerDVF07CM

**Port/IP/Local Path** : Leave blank

**Network Path** : Leave blank

**Auth** : Leave blank  
**Sync Time** : OFF

### 2.46.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.46.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : DVD (Multidisc)  
**Load Duration** : We suggest 45 seconds  
**Jump Duration** : We suggest 15 seconds  
**Take Delay** : We suggest 2 seconds  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Slots** : 1 to 300  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.47 RossAVMCM

Controls Ross AVM switchers.

### 2.47.1 Supported Devices

This Control Module is for use with video switchers manufactured by Ross Video. The following models have been tested:

- All AVM switchers

### 2.47.2 Physical Connections

You will need an available RS-422 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

The cable required for this device depends upon what type of RS-422 port you are using.

FIGURE 2.41: Quatech RS-422 cable

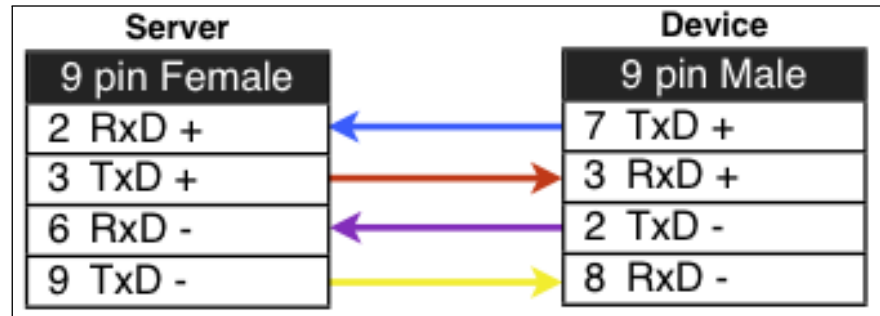
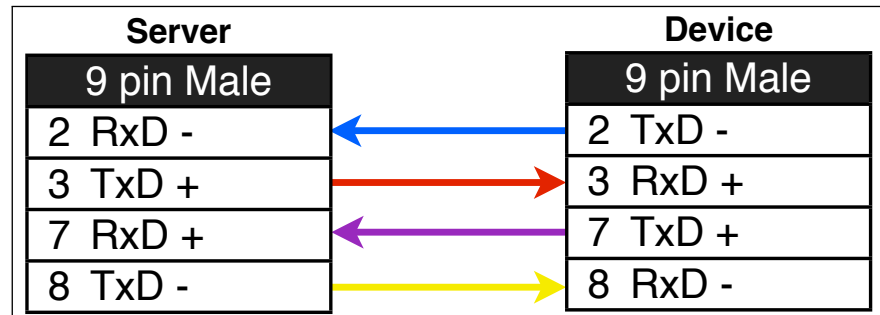


FIGURE 2.42: Blastronix RS-422 cable



### 2.47.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

- Baud Rate** : 38400 baud
- Stop Bits** : One
- Byte Size** : 8 bits
- Parity** : Odd
- Flow Control** : None



#### 2.47.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : RossAVMCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

#### 2.47.5 Selecting this Control Module for Router control



**Location Settings: I/O:** Router Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## **2.48 ShellCM**

This Control Module will run a user-created program when every event occurs. It will pass relevant information to the program so that the appropriate action can be taken. For more information, please contact TRMS support.

## 2.49 SierraSVSCM

Controls Sierra routers that use the SVS protocol.

### 2.49.1 Supported Devices

This Control Module is for use with video switchers manufactured by Sierra Video Systems. The following models have been tested:

- All routers that use the SVS protocol

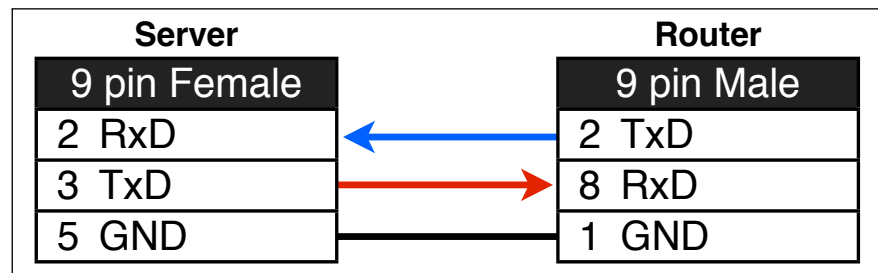


Newer Sierra routers use a standard straight-through serial cable for control. We suggest you try that first, if it does not work, you may need to build the custom cable outlined below.

### 2.49.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.43: Sierra RS-232 cable



### 2.49.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.49.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : SierraSVSCM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

#### 2.49.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**SierraSVS-Levels** : Sets the levels that should be included in switch commands and status requests. Setting this to 0 will switch all levels. Otherwise, you can specify a comma-delimited list of levels, such as 1,2,4 for levels 1, 2 and 4.

#### 2.49.6 Selecting this Control Module for Router control



Location Settings: I/O:  
Router

Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.50 SigmaSCICM

Controls Sigma routers that use the SCI protocol.

### 2.50.1 Supported Devices

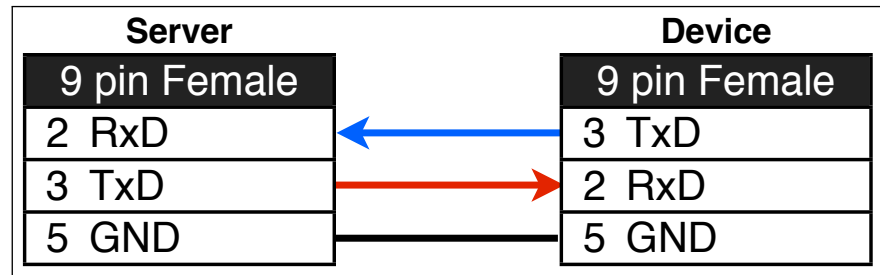
This Control Module is for use with video switchers manufactured by Sigma Technology Systems. The following models have been tested:

- All routers that use the SCI protocol

### 2.50.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.44: RS-232 null modem cable



### 2.50.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.50.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : SigmaSCICM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**Network Path** : Leave blank  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.50.5 Selecting this Control Module for Router control



**Location Settings: I/O: Router** Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.51 SnellSWP02CM

Controls all routers that use the Snell General Switcher Communication Protocol

### 2.51.1 Supported Devices

This Control Module is for use with video switchers manufactured by Snell (formerly Snell and Wilcox, Pro-Bel). The following models have been tested:

- Vega series

### 2.51.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : SnellSWP02CM

**Port/IP/Local Path** : Enter the IP address of the device

*Example:* 192.168.1.22

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.51.3 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**SnellSWP02CMFirstOutput** : Defines the one-based address of the first output on the router. For most routers this should be set to 1. For Vega routers the value depends on configuration

**SnellSWP02CMLastOutput** : Defines the one-based address of the last output on the router. For most routers this will be set to the number of outputs, e.g. 32. For Vega routers the value depends on configuration

### 2.51.4 Selecting this Control Module for Router control



**Location Settings: I/O: Router** Navigate to *Location Settings: I/O: Router*. Select the Control Module Set Router

you previously created from the **CMS that controls the router** pop-down list.



## 2.52 SonyBDP7000CM

Controls BDP-CX7000ES 400 disc Blu-ray changers.

### 2.52.1 Supported Devices

This Control Module is for use with DVD changers manufactured by Sony. The following models have been tested:

- BDP-CX7000ES

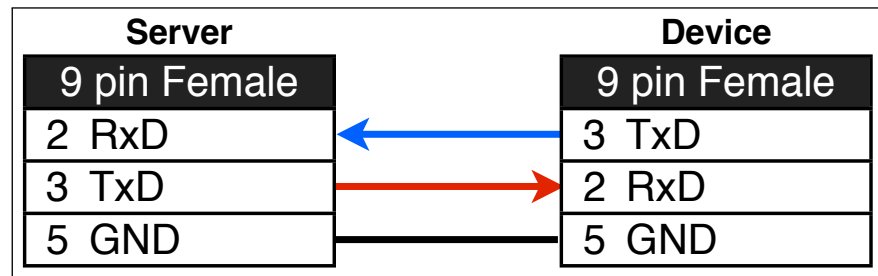


Stick-on DVD labels will cause serious damage to your DVD changer. We strongly suggest purchasing printable DVDs.

### 2.52.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.45: RS-232 null modem cable



### 2.52.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.52.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Sony DVD Changer.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : SonyBDP7000CM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank

**Auth** : Leave blank  
**Sync Time** : OFF

### 2.52.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.52.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : DVD (Multidisc)  
**Load Duration** : We suggest 45 seconds  
**Jump Duration** : We suggest 15 seconds  
**Take Delay** : We suggest 3 seconds  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Slots** : 1 to 400  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.53 SonyDSR45CM

Controls DVCAM decks from Sony.

### 2.53.1 Supported Devices

This Control Module is for use with timecode VTRs manufactured by Sony. The following models have been tested:

- DSR-45

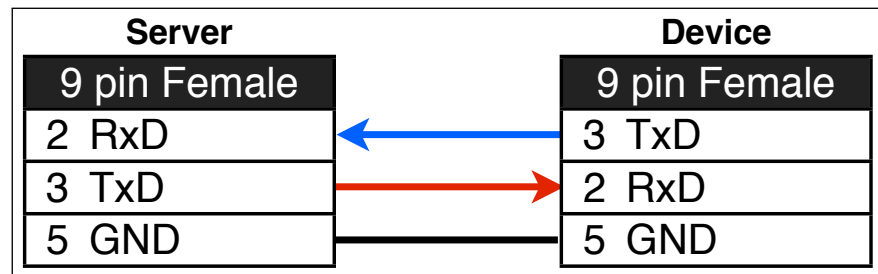


The rear-panel REMOTE switch must be set to RS-232C. The front-panel REMOTE/LOCAL switch must be set to REMOTE.

### 2.53.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.46: RS-232 null modem cable



### 2.53.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.53.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Sony VTR.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : SonyDSR45CM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank

**Auth** : Leave blank  
**Sync Time** : OFF

### 2.53.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.53.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : VTR  
**Jump Duration** : We suggest 60 seconds  
**Take Delay** : We suggest 1 second  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## 2.54 SonyDVP777CM

Controls DVP-CX777ES 400 disc DVD changers.

### 2.54.1 Supported Devices

This Control Module is for use with DVD changers manufactured by Sony. The following models have been tested:

- DVP-CX777ES

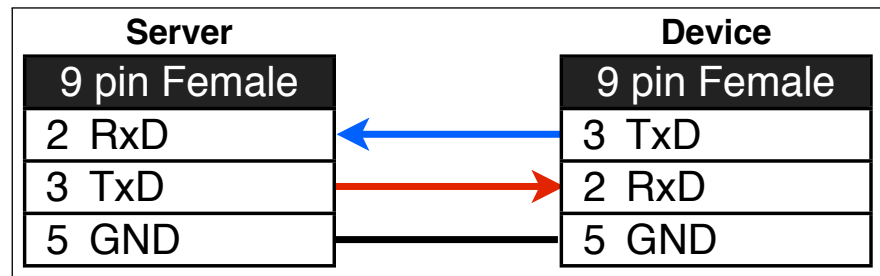


Stick-on DVD labels will cause serious damage to your DVD changer. We strongly suggest purchasing printable DVDs.

### 2.54.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.47: RS-232 null modem cable



### 2.54.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.54.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Sony DVD Changer.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : SonyDVP777CM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank

**Auth** : Leave blank  
**Sync Time** : OFF

### 2.54.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.54.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : DVD (Multidisc)  
**Load Duration** : We suggest 45 seconds  
**Jump Duration** : We suggest 15 seconds  
**Take Delay** : We suggest 3 seconds  
**Post Roll** : We suggest 5 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Slots** : 1 to 400  
**Device Address** : The serial port that controls the device, e.g. 2  
**Device Formats** : Select a suitable format.  
**Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.55 SXEncoderCM

Controls the built-in encoders in SX series video servers.

### 2.55.1 Supported Devices

This Control Module is for use with digital video encoders manufactured by Tightrope Media Systems. The following models have been tested:

- SX-2
- SX-2HD
- SX-4
- SX-LE

### 2.55.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Encoder.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : SXEncoderCM

**Port/IP/Local Path** : Enter the drive to which this video server should record

*Example:* E:\

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.55.3 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.55.4 Device Settings

Enter the following information:

**Name** : A descriptive name for your device

**Device Function** : Record only

**Device Type** : Digital File

**Take Delay** : We suggest 0 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : The encoder that this device represents, 0 or 1

**Device Formats** : Select a suitable format.

**Device End Actions** : StopRecord

**Router Output** : The router output to which this device is connected, e.g. 3

**Record Quality** : Select what codec you want to use for recordings on this device

**Record Copy UNC** : Leave blank. See the Cablecast manual for more information.

Click **Save** to complete the configuration of your new device.



## 2.56 SXPlayerCM

Controls the video decoders in the SX series video servers.

### 2.56.1 Supported Devices

This Control Module is for use with digital video servers manufactured by Tigtrope Media Systems. The following models have been tested:

- SX-2
- SX-2HD
- SX-4
- SX-LE

### 2.56.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Server Playback.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : SXPlayerCM

**Port/IP/Local Path** : Enter the content drive or drives that this video server will play from, multiple drives should be separated by a pipe character

*Example:* E:\|F:\

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.56.3 Creating a Device



**Location Settings: I/O:** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.56.4 Device Settings

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : Digital File

**Take Delay** : We suggest 0 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : The playback channel that this device represents, starting with 0

**Device Formats** : Select a suitable format.

**Device End Actions** : None

Click **Save** to complete the configuration of your new device.

## 2.57 TascamBDR2000CM

Controls DVD and Bluera y playback on Tascam BD-R2000

### 2.57.1 Supported Devices

This Control Module is for use with DVD players manufactured by Tascam. The following models have been tested:

- DSR-45

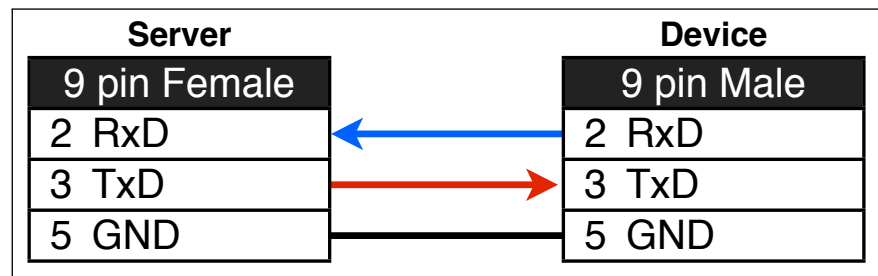


Set QUICK STARTUP to ON in device menu.

### 2.57.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.48: RS-232 straight through cable



### 2.57.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : Odd  
**Flow Control** : None

### 2.57.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Tascam DVD.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : TascamBDR2000CM  
**Port/IP/Local Path** : Leave blank  
**Network Path** : Leave blank  
**Auth** : Leave blank

Sync Time : OFF

### 2.57.5 Creating a Device



Location Settings: I/O:  
Devices

Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.57.6 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : DVD
- Jump Duration** : We suggest 60 seconds
- Take Delay** : We suggest 1 second
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Address** : The serial port that controls the device, e.g. 2
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.58 TascamDVD6500CM

Controls Industrial DVD Players decks from Tascam.

### 2.58.1 Supported Devices

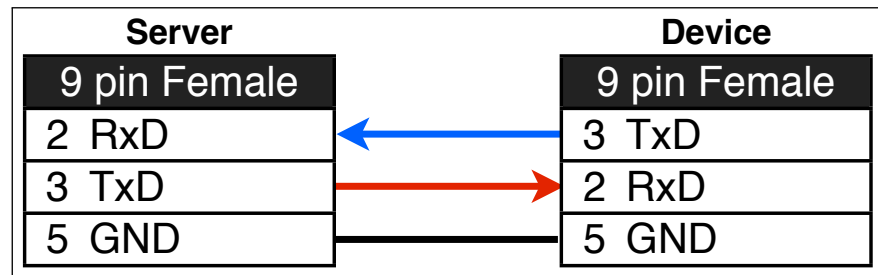
This Control Module is for use with DVD players manufactured by Tascam. The following models have been tested:

- DV-D01U
- DV-D6500

### 2.58.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

FIGURE 2.49: RS-232 null modem cable



### 2.58.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.58.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Tascam DVD.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : TascamDVD6500CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

Sync Time : OFF

### 2.58.5 Creating a Device



Location Settings: I/O:  
Devices

Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.58.6 Device Settings

Enter the following information:

- Name** : A descriptive name for your device
- Router Address** : The router input to which this device is connected, e.g. 2
- Device Function** : Playback only
- Device Type** : DVD
- Jump Duration** : We suggest 15 seconds
- Take Delay** : We suggest 1 second
- Post Roll** : We suggest 5 seconds
- Device CMS** : Select the Control Module Set that you created earlier for this device
- Device Address** : Leave blank
- Device Formats** : Select a suitable format.
- Device End Actions** : Stop

Click **Save** to complete the configuration of your new device.

## 2.59 TRMSCBLRS422CM

Controls VTRs and other devices that support the Sony RS422 protocol.

### 2.59.1 Supported Devices

This Control Module is for use with timecode VTRs manufactured by various manufacturers that support the Sony RS422 protocol. The following models have been tested:

- Sony DSR-1500
- Sony DSR-2000
- Sony DSR-45

### 2.59.2 Physical Connections

You will need an available RS-422 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

The cable required for this device depends upon what type of RS-422 port you are using.

FIGURE 2.50: Quatech RS-422 cable

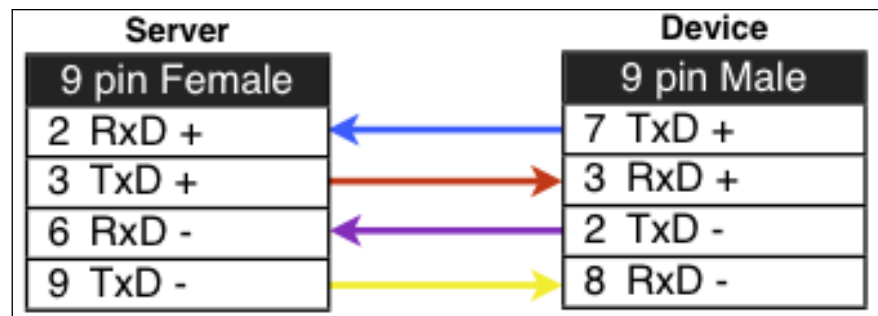
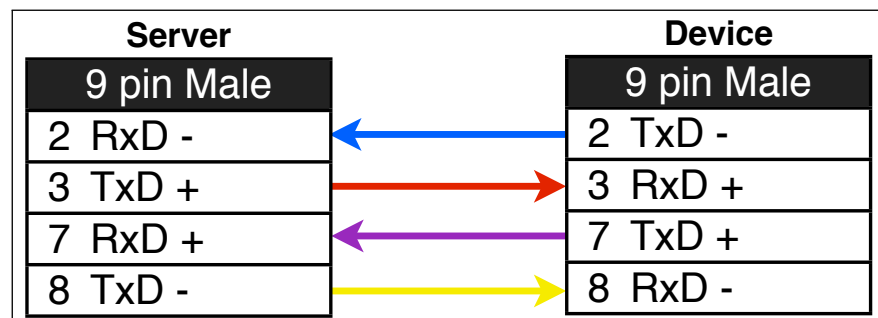


FIGURE 2.51: Blastronix RS-422 cable



### 2.59.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 38400 baud

**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : Odd  
**Flow Control** : None

#### 2.59.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O: Control Module Sets** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as various manufacturers that support the Sony RS422 protocol VTR.

**Control Module** : Select the corresponding Host and Control Module

*Example:* localhost : TRMSCBLRS422CM

**Port/IP/Local Path** : Leave blank

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

#### 2.59.5 Creating a Device



**Location Settings: I/O: Devices** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

#### 2.59.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device

**Router Address** : The router input to which this device is connected, e.g. 2

**Device Function** : Playback only

**Device Type** : VTR

**Jump Duration** : We suggest 60 seconds

**Take Delay** : We suggest 1 second

**Post Roll** : We suggest 5 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : The serial port that controls the device, e.g. 2

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.



## 2.60 TRMSIR4CM

Controls the IR-4 IR Expander. This unit is used to control up to four IR devices

### 2.60.1 Supported Devices

This Control Module is for use with devices manufactured by Tightrope Media Systems. The following models have been tested:

- IR-4



You need to use the IR Learner application to learn the appropriate commands for your devices before this Control Module will work. This application can be found in D:\TRMS\ Tools.

### 2.60.2 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name :** A descriptive name, such as IR-4.

**Control Module :** Select the corresponding Host and Control Module

*Example:* localhost : TRMSIR4CM

**Port/IP/Local Path :** Enter the serial port to which the device is connected

*Example:* 2

**Network Path :** Leave blank

**Auth :** Leave blank

**Sync Time :** OFF

### 2.60.3 Creating a Device



**Location Settings: I/O:** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.60.4 Device Settings



This device is both a router and a device controller. The following settings give a general example as to how a device is configured, but your settings will likely be slightly different

Enter the following information:

**Name :** A descriptive name for your device

**Router Address :** The router input to which this device is connected, e.g. 2

**Device Function :** Playback only

**Device Type :** Generic

**Wake Device** : Enabled if your device enters a power-saving state. We suggest 30 seconds.

**Take Delay** : We suggest 0 seconds

**Post Roll** : We suggest 0 seconds

**Device CMS** : Select the Control Module Set that you created earlier for this device

**Device Address** : The IR port to which the deck is connected, 1 . . . 4

**Device Formats** : Select a suitable format.

**Device End Actions** : Stop + Rewind

Click **Save** to complete the configuration of your new device.

## **2.61 TRMSRelayCM**

Uses the RTS line of the serial port to control external devices. A Play event will set RTS, a Stop event will clear it

## 2.62 UtahScientificRCP1CM

Controls Utah routers that use the RCP1 protocol.

### 2.62.1 Supported Devices

This Control Module is for use with video switchers manufactured by Utah Scientific. The following models have been tested:

- Routers that use the RCP1 protocol

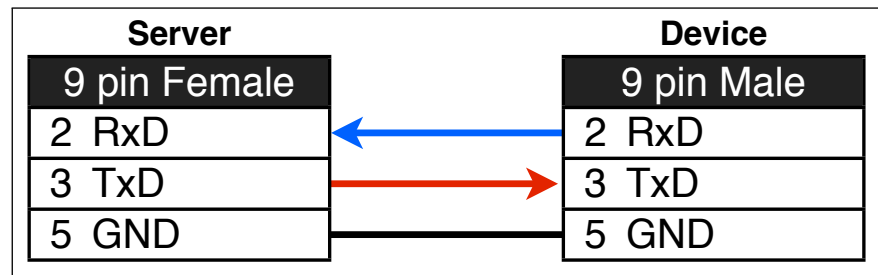


Your router's control board may have a jumper that selects the serial port mode, you should set it to RS-232. For 100x series routers, you must use a DB9 null-modem cable with ONLY pins 2,3 and 5 wired.

### 2.62.2 Physical Connections

You will need an available RS-232 port, and an appropriate cable. The device end of the cable needs a male DE-9 connector.

FIGURE 2.52: RS-232 straight through cable



### 2.62.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 9600 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : None  
**Flow Control** : None

### 2.62.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Router.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : UtahScientificRCP1CM

**Port/IP/Local Path** : Enter the serial port to which the device is connected

*Example:* 2

**Network Path** : Leave blank

**Auth** : Leave blank

**Sync Time** : OFF

### 2.62.5 Control Module specific settings

This Control Module has additional settings in the Application Configuration file. This file can be found at:

**D:\TRMS\Control Modules\TRMS.Services.CablecastDeviceControl.exe.config.**

Please double-check any changes you make as a mis-configuration of these settings could cause your system to stop functioning.

**UtahScientificRPC1-Outputs** : Sets the outputs that status will be requested for. This list is zero based, so the first output on the router is 0. Enter this as a comma-delimited list, for example 0,1,2,3,7,42.

**UtahScientificRPC1-Levels** : Sets the levels that will be switched and that status will be requested for. This list is one based, so the first level is 1. Enter this as a comma-delimited list, for example 1,2,3,6,7

**UtahScientificRPC1-BaudRate** : The baud rate that will be used for serial communication. If not set 9600 will be used. For use with 100x series routers, this must be set to 19200

### 2.62.6 Selecting this Control Module for Router control



**Location Settings: I/O: Router** : Navigate to *Location Settings: I/O: Router*. Select the Control Module Set you previously created from the **CMS that controls the router** pop-down list.

## 2.63 VDCPCM

Controls Video Servers that support the VDCP protocol.

### 2.63.1 Supported Devices

This Control Module is for use with digital video servers manufactured by various manufacturers that support the VDCP protocol. The following models have been tested:

- 360 Systems Imageserver
- 360 Systems Imageserver 2000
- 360 Systems Imageserver MAXX
- Ross Softmetal



Files on the VDCP controlled server must be named showid-reelnumber e.g. '12345-1'. The Reel Number is required, and no file extension is allowed

### 2.63.2 Physical Connections

You will need an available RS-422 port, and an appropriate cable. The device end of the cable needs a female DE-9 connector.

The cable required for this device depends upon what type of RS-422 port you are using.

FIGURE 2.53: Quatech RS-422 cable

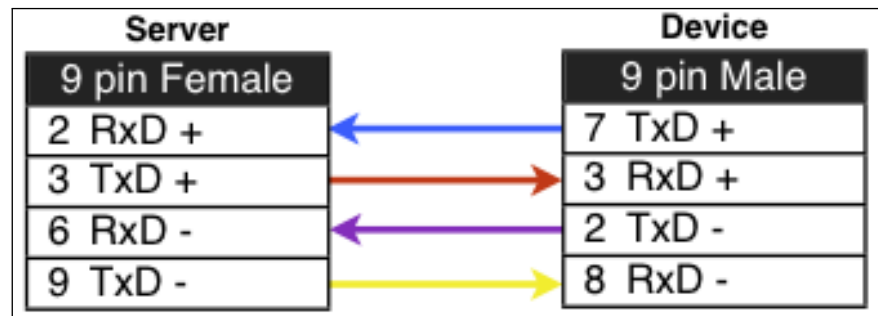
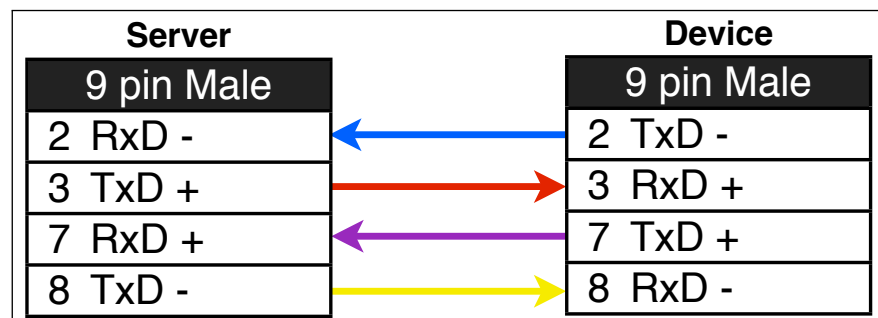


FIGURE 2.54: Blastronix RS-422 cable



### 2.63.3 Serial Port settings

Consult your device's documentation for instructions on how to setup its serial port. Cablecast uses the following settings:

**Baud Rate** : 38400 baud  
**Stop Bits** : One  
**Byte Size** : 8 bits  
**Parity** : Odd  
**Flow Control** : None

### 2.63.4 Location Settings: I/O: Control Module Sets Settings



**Location Settings: I/O:** Create an entry for this Control Module in the *Location Settings: I/O: Control Module Sets* menu. Enter the following information into the fields:

**CMS Name** : A descriptive name, such as Server Playback.  
**Control Module** : Select the corresponding Host and Control Module  
*Example:* localhost : VDCPCM  
**Port/IP/Local Path** : Enter the serial port to which the device is connected  
*Example:* 2  
**NetworkPath** : Enter the IP Address of the device  
*Example:* 192.168.1.10  
**Auth** : Leave blank  
**Sync Time** : OFF

### 2.63.5 Creating a Device



**Location Settings: I/O:** Navigate to *Location Settings: I/O: Devices* Click **New**, this will add a new device to the bottom of the list, called New Input. Click it to open the device settings.

### 2.63.6 Device Settings

Enter the following information:

**Name** : A descriptive name for your device  
**Router Address** : The router input to which this device is connected, e.g. 2  
**Device Function** : Playback only  
**Device Type** : Digital File  
**Take Delay** : We suggest 0 seconds  
**Post Roll** : We suggest 0 seconds  
**Device CMS** : Select the Control Module Set that you created earlier for this device  
**Device Address** : The playback channel that this device represents, starting with 1  
**Device Formats** : Select a suitable format.  
**Device End Actions** : None

Click **Save** to complete the configuration of your new device.

## **2.64 VODCM**

Performs VOD operations like transcoding and file discovery.