

Rugged NVR Appliance w/ 4 x PoE

The CIRRUS CR16T is a rugged in-vehicle NVR appliance with built-in 4 PoE ports designed for direct management of four (4) PoE IP cameras. Features such as vibration resistance, I/O ports, ignition control and 3G wireless networking make integration into vehicle system projects fast and easy.



Features

- Fanless Design / Corrugated Aluminum
- 4 PoE ports (IEEE 802.3af)
- MIL-STD-810 Vibration & Shock Compliance
- Vehicle Ignition Power Management
- Wi-Fi / 3G Wireless Options
- Built-in GPS Receiver w/ Antenna
- Software and Hardware Watchdogs
- Web Based Administrative Interface
- Quick Setup Wizard Simplifies Initial System Setup
- Windows Embedded Standard 7 Operating System

Multiple PoE Ports

A must-have for vehicle computing, the **Power Ignition Control** feature plays a key role in controlling the device's power function. This feature detects the ignition signal status and allows users to control the on/off delay time setting through the **Ignition System Manager (ISM)** software utility.



Removable HDD/SSD Drive Bay

The CR16T supports a removable HDD/SSD drive bay for field-site fast swaps and flexible expansion capability.



Removable HDD Bay

MIL-STD-810G

The CR16T is compliant with MIL-STD-810G vibration and shock testing. A suspension kit is also included to assist in vibration resistance. These devices are ruggedized and outfitted with industrial components (HDD/SSD, CF, Memory) to support a wide range of environmental conditions.



Vehicle Standards Certified



All IONODES in-vehicle appliances are designed to meet the requirements of the E-Mark Certification (E13).

Target Applications

- Bus Video Recording Systems
- Vehicle Digital Signage Solutions
- Advanced Vehicle Applications

Quick Setup Wizard

All CIRRUS IP recording appliances are delivered with our unique **Quick Setup Wizard**, pre-loaded and ready to go. The Quick Setup Wizard allows you to select, at first boot, which VMS software solution to deploy on your CIRRUS appliance.



CR16T Specifications

FRONT

BACK

Standard / Integrated Interfaces

PoE Network	4 x 10/100/1000 Base-T Ethernet port(s) RJ45
USB	4 x USB 2.0 TYPE A (Mouse, Keyboard, Expansion)
Display Outputs	DVI-D x 1, VGA x 1, HDMI x 1
Serial Port	1 x RS-232/422/485 1 x RS-232
Audio	Mic-in and Line-out (2W) Via terminal block MIO connector

System

Operating System	Windows Embedded Standard 7
CPU / Memory	Intel 847E or Intel i7-2655LE 4GB DDR3 memory

500GB, 1TB & 2TB Models Available
Optional dedicated CF Boot Drive

External	Network Storage via LAN (iSCSI)
----------	---------------------------------

I/O

GPS	Built-in GPS receiver module w/ antenna
G-Sensor	Built-in G-sensor
Digital I/O	4x DI 5V/12V Level, 4x DO 5V/12V Level, 2x 2A relay

Available Options

- WIFI 802.11b/g/n Network Module w/ Antenna
- Sierra 3G Communications Module w/ Antenna (Quad-band GSM/EDGE/UMTS/HSDPA) (850/1900/2100 MHz)
- Telit 3G Communications Module w/ Antenna (Quad-band GSM/GPRS/EDGE/UMTS/HSPA) (800/850/900/AWS1700/1900/2100 MHz)
- Ublox 3G Communications Module w/ Antenna (GSM/GPRS/EDGE/UMTS/HSPA/WCDMA(UMTS)) (800/850/900/1700/1900/2100 MHz)
- GSM or GPS External Antenna, Length: 300 cm

Protocols

Networking	IPv4/v6, UDP, TCP, ICMP, ARP, DHCP, DNS, HTTP, HTTPS, BONJOUR, NTP
Security	Basic / Digest Authentication, SSL

Software

Auto-Discovery	Bonjour protocol support
Web Interface	Web UI for remote config. / maintenance

Enclosure	Aluminum / Steel
Input Voltage	DC Input: 9~36V with Ignition Control 12V to 45C (commercial model) 12V to 55C (industrial model)
Certifications	CE, FCC Class A, RoHS, E13
Compliance	Vibration: MIL-STD-810 , Method 514.6 Shock: MIL-STD-810 , Method 516.6
Warranty	1 Year Standard Extended warranty available (1, 2 or 3 years)

NODES

CIRRUS