

HDMI Over IP Extender

User Manual

Models 208260, 208277, 208284



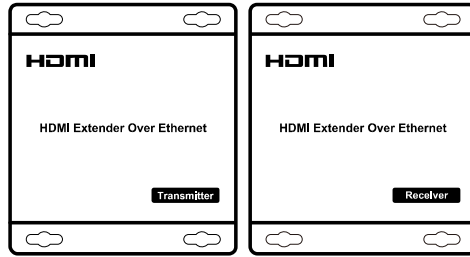
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Important: Read before use. • Importante: Leer antes de usar.

TABLE OF CONTENTS

INTRODUCTION	3
FEATURES.....	3
SPECIFICATIONS	3
SETUP COMPONENTS	3
PANEL DESCRIPTIONS.....	4
TRANSMITTER PANEL	4
RECEIVER PANEL	5
CONNECTING AND OPERATING	6
COMMON CONFIGURATIONS	6
ONE-TO-ONE	6
ONE TO MANY	7
MANY TO MANY	8
SETUP HDMI TX AND HDMI RX	9
MAINTENANCE.....	9
ADDITIONAL INFORMATION.....	10

HDMI over Ethernet Extender



Introduction

This HDMI over IP Extender solution supports transmissions up to 120 m (390 ft.) over single Cat5e/6 cable in point-to-point as well as point-to-many and many-to-many network wiring schemes. This HDMI over IP solution can be used in a wide variety of locations and applications such as meeting rooms, classrooms, metro stations, airports, homes, in mall advertisement and much more.

Features

- Extends 1080p HDMI signals up to 120 m (390 ft.) over a single UTP Cat5e/6 cable
- Supports Point-to-Point, Point-to-Many and Many-to-Many network configurations
- HDCP compliant
- Can be cascaded for many layers by adding more Ethernet switches
- With wideband IR (38 – 56kHz) control to the source
- Supports TCP/IP protocol
- Includes mounting brackets

Specifications

Operating Temperature Range	-5 to +35C (+23 to +95°F)
Operating Humidity Range	5 to 90% RH (non-condensing)
Input Video Signal	0.5 – 1.0 Volts P-P
Input DDC Signal	5 volts p-p (TTL)
Support Video Format	DTV/HDTV:480i/576i/480P/576p/720p/1080p
Video Output	HDMI
Transmission Distance	1080P 8-bit 120m(Maximum) over single Cat5E/6 /24AWG/Solid
Power consumption	TX:3 watts; RX:3 watts((Maximum)
IR Frequency	38kHz-56 kHz
Dimension (LxWxH)	103.5x93.5x24.6 mm
Net Weight	Receiver: 220 g, Transmitter: 220 g
Transmitter (TX)	Default IP address: 192.168.168.55
Receiver (RX)	Default IP address: 192.168.168.56

Note 1: Specifications are subject to change without notice. Mass and dimensions are approximate.

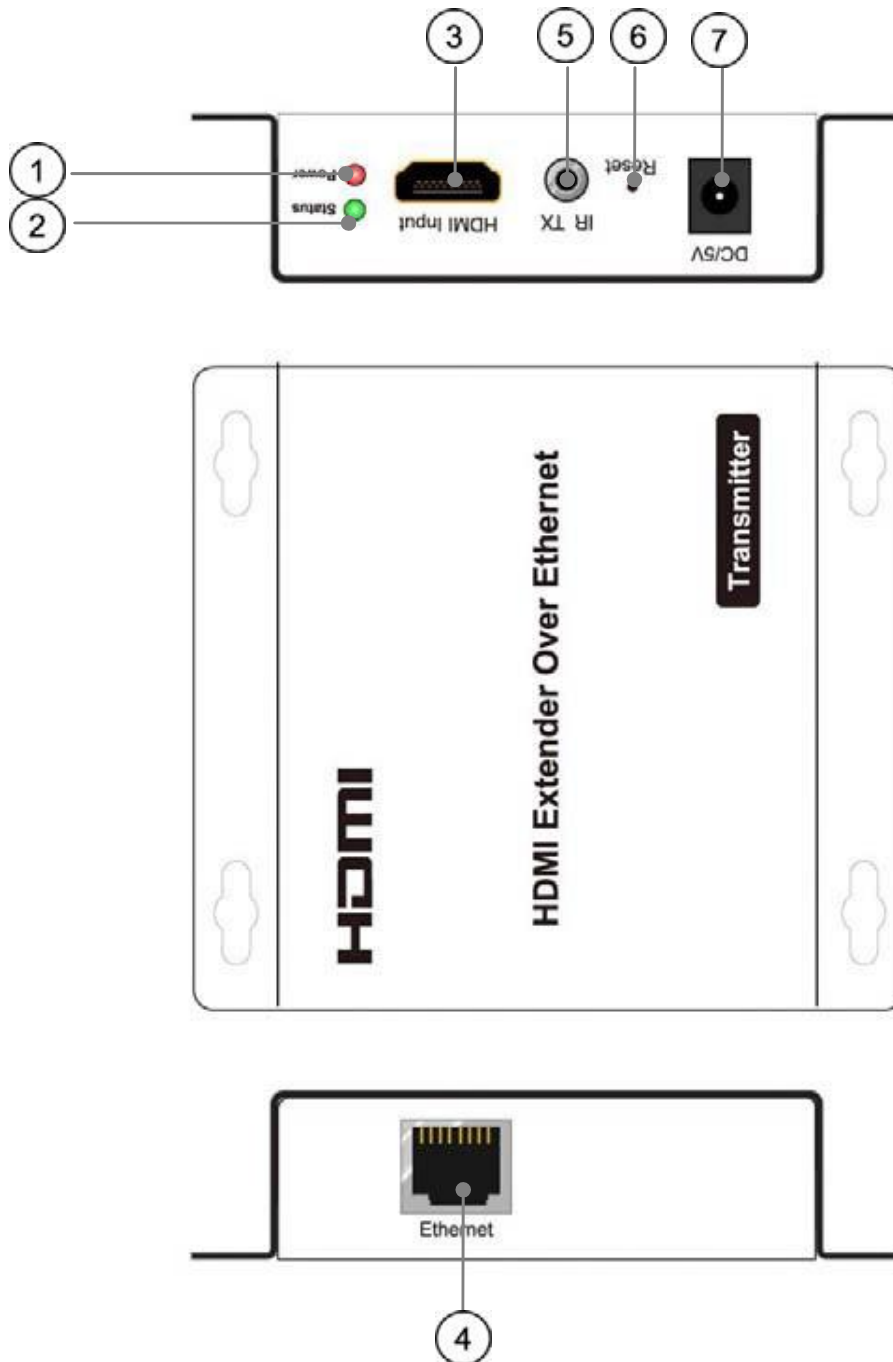
Note 2: IP and MAC addresses must be different for transmitters (TX) and receivers (RX) in one-to-many or many-to-many configurations.

Setup Components

- Transmitter
- Receiver
- Power adapter(s) DC 5 V / 1 A
- IR-TX & IR-RX cables

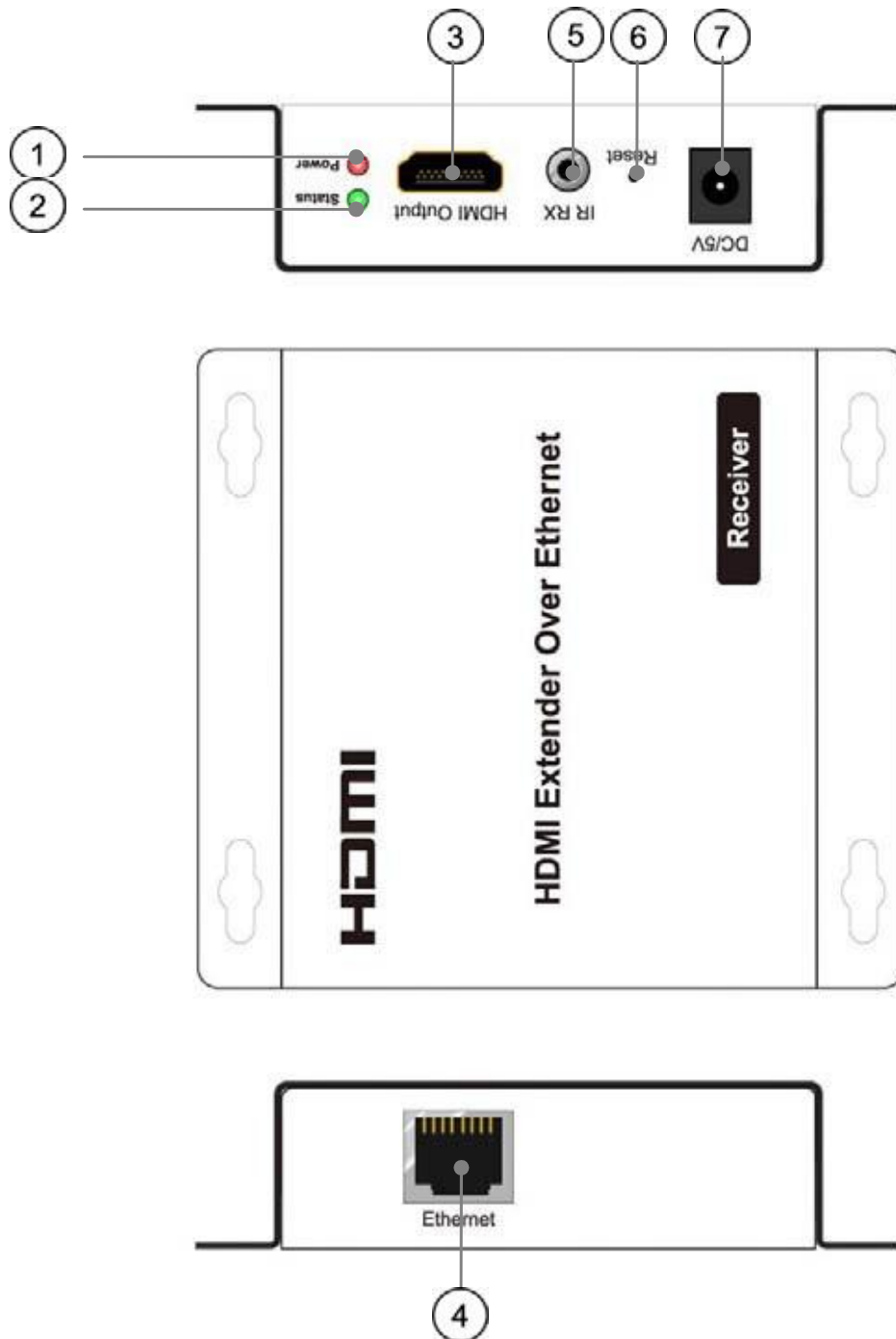
Panel Descriptions

Transmitter Panel



1. LED — power status indicator
2. LED — signal connection status indicator
3. HDMI input
4. Ethernet port
5. IR-TX port
6. Reset button
7. Power input port

Receiver Panel



1. LED — power status indicator
2. LED — signal connection status indicator
3. HDMI output
4. Ethernet port
5. IR-RX port
6. Reset button
7. Power input

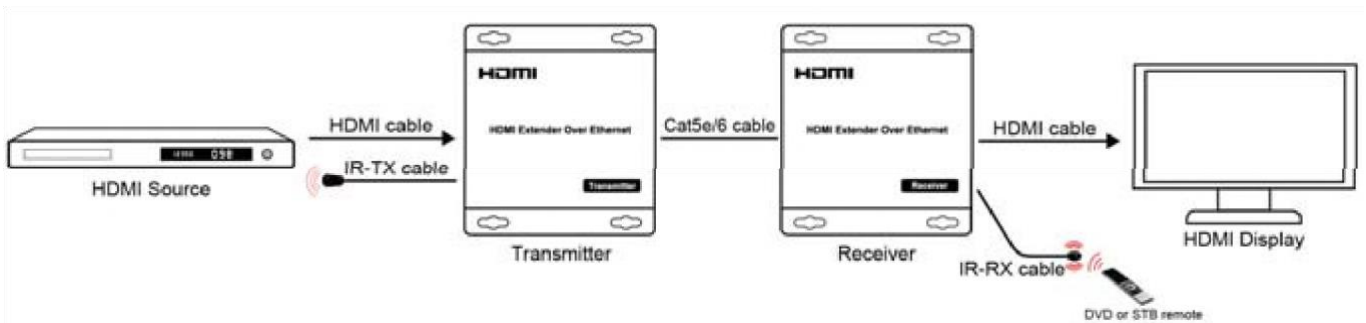
Connecting and Operating

1. Connect the HDMI signal source to the transmitter.
2. Connect the Ethernet ports of the transmitter and receiver with Cat5e/6 cable (cables must follow the EIA-TIA 568B standard).
3. Connect the HDMI display into the receiver.
4. Connect the power supply to the power port.
5. Connect the IR TX cable to the **IR TX** port on the transmitter and affix the emitter onto the source IR windows.
6. Connect the IR-RX cable to the **IR-RX** port on the receiver and place the IR receiver in direct line of sight to the handheld remote control. It is recommended to affix the receiver on the display frame/bezel or the display stand.

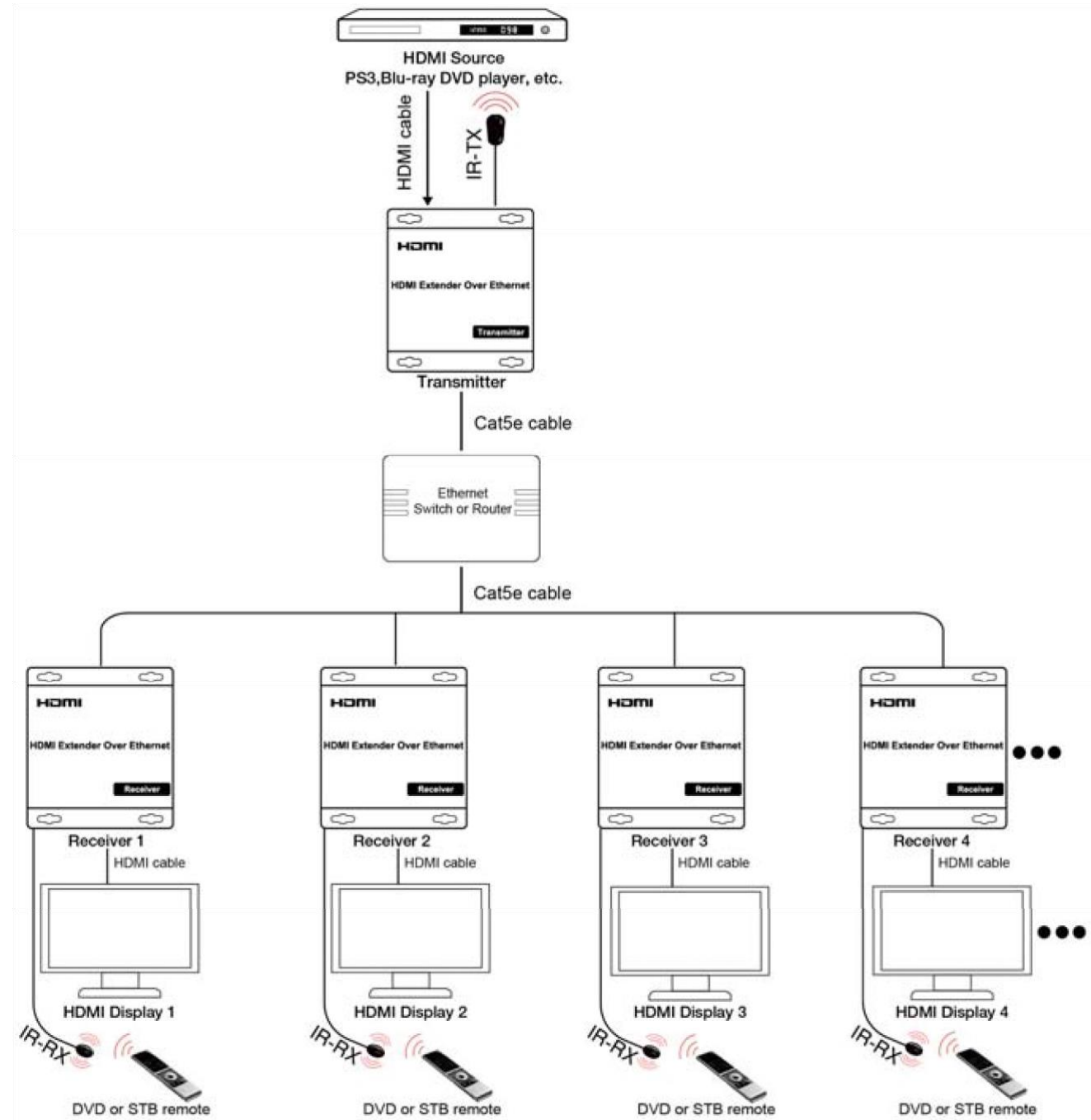
Attention: Insert/remove cables gently.


Common Configurations

One-to-one

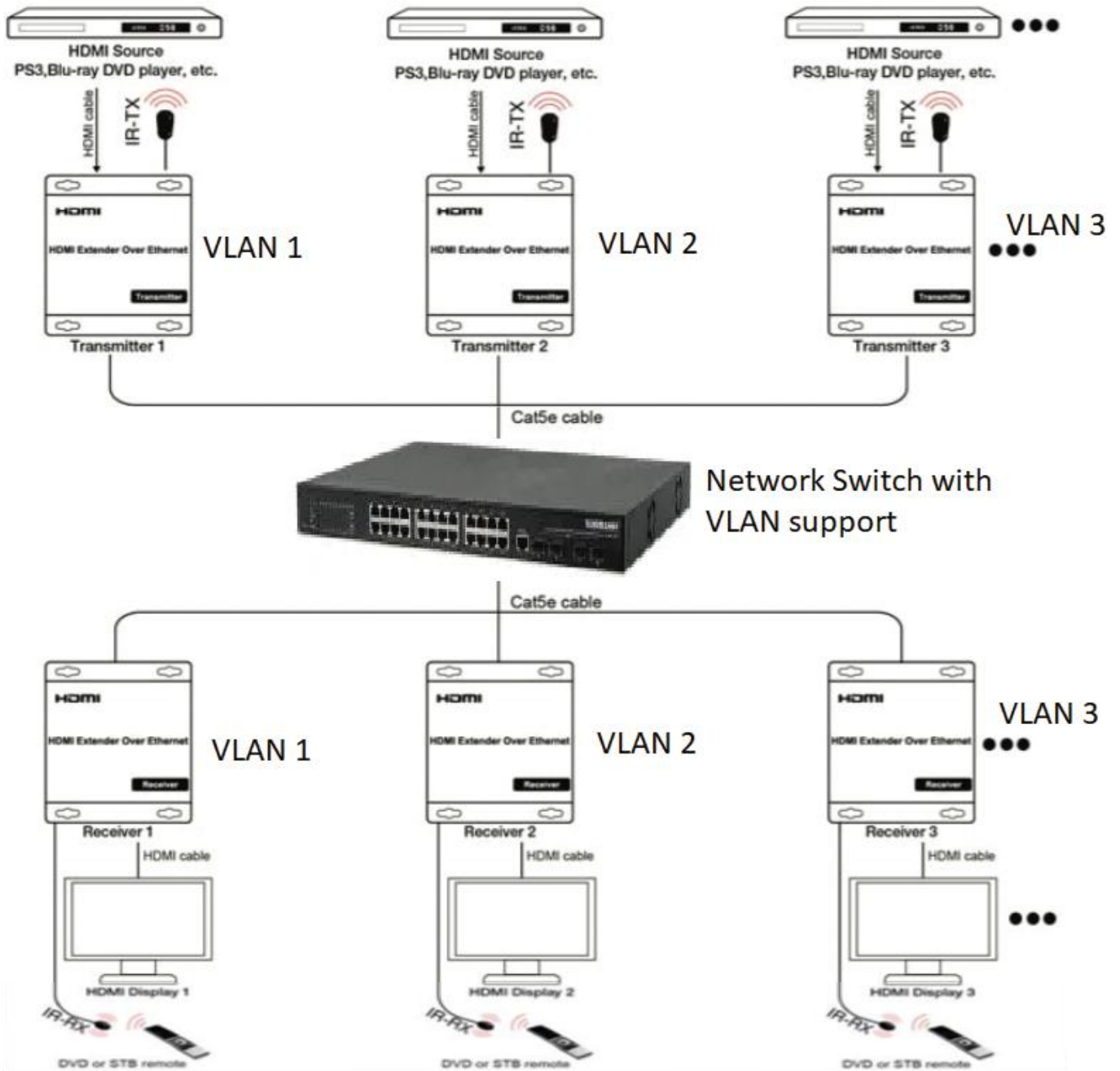


One to many



 Note Connect HDMI transmitter and receivers to the Ethernet switch.

Many to many



Note

1. Connect HDMI TX and RX ports to a switch that supports VLAN.
2. An HTTP server is embedded in the TX and RX; you can set IP addresses for RXs via web browser. Refer to the section **Setup HDMI TX and RX** below.

Setup HDMI TX and HDMI RX

An HTTP server is embedded in each TX and RX. You can set up IP addresses for HDMI extender pieces via web browser.

- The default IP address of the TX is **192.168.168.55**; its MAC address is **00:0b:78:00:60:01**.
- The default IP address of the RX is **192.168.168.56**; its MAC address is **00:0b:78:00:60:02**.

Step 1: Assign the PC (or laptop) IP address on the computer: Control Panel → Network Connections → Local Area Connections → Status → Properties → Internet Protocol (TCP/IP). Fill in the following in the fields described:

- IP address field: **192.168.168.11 (0-255)**
- Subnet mask: **255.255.255.0**.

Press OK to save the configuration.

NOTE: The IP address of PC must be different from the IP addresses of the TX and RX.

Step 2: Use an Ethernet cable to connect the PC (or laptop) and the extender. The power LED for the extender lights red and the status LED lights green.

Step 3: Ping the connected device through the sequence on computer: Start → Run → input **CMD** → input **ping 192.168.168.55** for TX or **ping 192.168.168.56** for RX (you will receive the reply if the connection is established).

Step 4: Login in IE: **192.168.168.55** (default IP for TX) or **192.168.168.56** (default IP for RX). Set up the IP address, subnet mask, gateway, and MAC address for the TX and RX. Set IP addresses for each TX and each RX (IP:**192.168.168.XX [XX:1-255]**). All IP addresses for TXs and RXs must be different.

Set MAC addresses for TX and RX (MAC: **00:0b:78:XX:XX-XX [XX:01-FF]**). The MAC address for each TX and RX must be different.

Step 5: Click **Apply**. The green LED light on the device will turn off, indicating you have successfully set IP addresses for TX and RX.

NOTE: to restore the device to its factory default settings follow these instructions: power on the device; the red LED lights. Wait 10 seconds; the green LED lights. Press the reset button for 5 – 10 seconds. The green light will go out, indicating you have successfully restored the IP address to the factory IP address.

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

Additional Information

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REGULATORY STATEMENTS

FCC Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment to an outlet on a circuit different from the receiver; or consult the dealer or an experienced radio/TV technician for help.

CE

ENGLISH: This device complies with the requirements of CE 2014/30/EU and/or 2014/35/EU. The Declaration of Conformity for is available at:

DEUTSCH: Dieses Gerät entspricht der CE 2014/30/EU und / oder 2014/35/EU. Die Konformitätserklärung für dieses Produkt finden Sie unter:

ESPAÑOL: Este dispositivo cumple con los requerimientos de CE 2014/30/EU y / o 2014/35/EU. La declaración de conformidad esta disponible en:

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POLSKI: Urządzenie spełnia wymagania CE 2014/30/EU i / lub 2014/35/EU. Deklaracja zgodności dostępna jest na stronie internetowej producenta:

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