Changing the IP and MAC Address Continued:

- 4. Select "System Settings" and change the last segment of the IP address shown to a unique number between 1 and 254.
- 5. Change the final digits of the MAC address from the default (TX: 00:0b:78:00:60:01, RX: 00:0b:78:00:60:02) to a unique hexadecimal number between 01 and FF.
- 6. Click "Apply" to enable the changes.
- 7. Repeat for each additional TX/RX and then install as described in "Installation" on pg. 4 and consult the diagrams on pgs. 5-6 as necessary.

Also Available from SECO-I ARM:



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PICSN6



MVE-AHMPM-01NQ

HDMI[®] Extender Over IP

Manual





- Extends HDMI over one Cat5e/6 cable or IP network
- Supports One-to-One, One-to-Many, and Many-to-Many applications
- Supports cascaded installation

- IR Support (38kHz~56kHz)
- HDCP Compliant
- Transmitter (MVE-AHMPM-01NTQ) and receiver (MVE-AHMPM-01NRQ) also available separately

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Introduction:

The MVE-AHMPM-01NQ HDMI Extender over IP extends the range of HDMI signals by using an active transmitter and receiver to send video and audio over a single Cat5e/6 cable. The HDMI Extender over IP supports IR signals using the included IR transmitter and receiver, allowing remote control use from one end of an installation to control a device such as a media player or DVD player at the opposite end of the installation. The MVE-AHMPM-01NQ supports One-to-One, One-to-Many, and Many-to-Many installation via VLAN, as well as a cascading installation, allowing the connection of multiple units for extended range.

Table of Contents:

Specifications	2
Parts List	
Dimensions	
Overview	
Installation	
Sample Application—One-to-One	4
Sample Application—One-to-Many, Switch/Router	
Sample Application-Many-to-Many, VLAN Switch	6
VLAN Setup	
Changing the IP and MAC Address	

Parts List:

1x Transmitter	1x IR Transmitter	2x Power adapters	4x Mounting screws
1x Receiver	1x IR Receiver	1x Manual	

Specifications:

Model		Transmitter	Receiver				
woder		MVE-AHMPM-01NTQ	MVE-AHMPM-01NRQ				
Maximum video re	esolution	1080p					
Deep color		24-t	bit				
Video formats sup	ported	DTV/HDTV: 480i, 576i, 480p	, 576p, 720p, 1080i, 1080p				
Danga 1090n	Cat6	390ft (1	20m)				
Range – 1080p	Cat5e	360ft (110m)					
IP addressing		Static or dynamic					
Default IP address	Default IP address (static) 192.168.168.55 192.168.16						
Default MAC addr	Default MAC address 00:0b:78:00:60:01 00:0b:78:00:60:0						
IR frequency		38kHz~{	38kHz~56kHz				
Operating voltage		5VDC@1A					
Power consumption	on	3W	Ĩ				
Operating temper	Operating temperature 23°~95° F (-5°~35° C)						
Dimensions 41/16"x311/16"x1" (104x94x25mm)							
Weight 7.8-oz (221g)							

VLAN Setup Continued:

- 5. By default VLAN1 will be configured and all ports on the switch will be assigned to it.
 - a. Example default VLAN configuration:

VLAN1								
Interface	P1	P2	P3	P4	P5	P6	P7	P8
Member	Х	Х	х	х	Х	Х	х	Х
Tagged								
Untagged	Х	Х	х	Х	х	Х	х	Х
PVID	Х	х	Х	Х	Х	Х	Х	Х

- b. Make note of which ports the transmitters and receivers will be connected to.
- c. Update the ports that will be connected to Transmitter 1 and its associated receivers.
- d. For this example, the first 4 ports (P1-P4) will be connected to Transmitter 1 and its associated receivers by setting the "Member" values for P1-P4.

VLAN1								
Interface	P1	P2	P3	P4	P5	P6	P7	P8
Member	х	х	х	х				
Tagged								
Untagged	Х	х	х	х	х	х	х	Х
PVID								

e. Click "Apply" or "Save" to enable the changes.

- 6. Create a second VLAN for Transmitter 2 and name it VLAN2.
 - a. Set the last 4 ports to be on VLAN2 by setting the "Member" values for P5-P8.

VLAN2								
Interface	P1	P2	P3	P4	P5	P6	P7	P8
Member					Х	Х	Х	Х
Tagged								
Untagged	х	х	х	х	х	х	х	Х
PVID								

- b. Click "Apply" or "Save" to enable the changes.
- c. Connect Transmitter 2 and its associated receivers to the last 4 ports (P5-P8).
- d. Confirm the source from Transmitter 1 is displaying on the receivers connected to P1-P4 and the source from Transmitter 2 is displaying on the receivers connected to P5-P8.
- e. If not, recheck the settings on VLAN1 and VLAN2 to make sure they are set correctly and that the configuration has been saved.

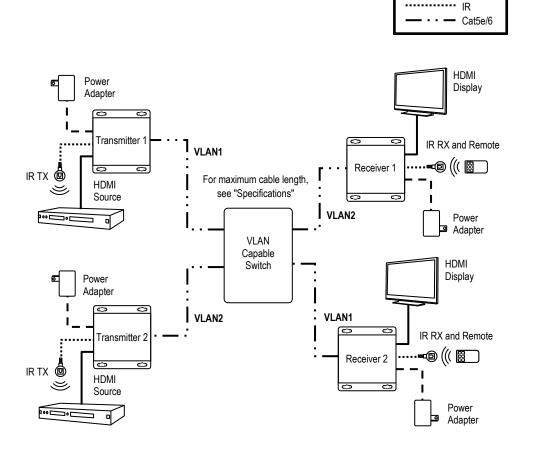
Changing the IP and MAC Address:

- 1. When there is more than one pair of transmitters/receivers connected to a switch/router, the IP address and MAC addresses must be changed for the additional units.
- Connect a powered transmitter/receiver (TX/RX) to a computer using an Ethernet cable (Note the computer may not have the same IP address as the transmitter/receiver). The power LED on the TX/RX should be red and the status LED should be green.
- 3. Open your web browser to the default link (TX: 192.168.168.55, RX: 192.168.168.56).

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Sample Application — Many-to-Many, VLAN Switch:



VLAN Setup:

NOTE: When setting up a Many-to-Many configuration, it will be necessary to use a managed switch that supports VLANs. The following is a generic example as configuration varies by manufacturer.

VLAN Setup Example

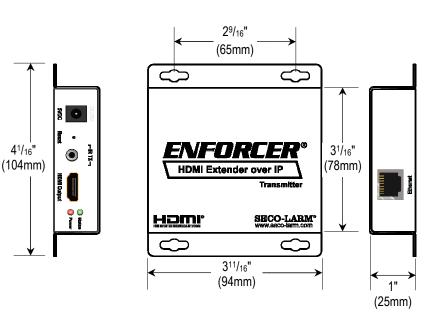
6

- 1. Login to the managed switch through its web interface.
- In this example, an 8-port managed switch (P1-P8) is used to connect 2 transmitters as shown in "Sample Application — Many-to-Many, VLAN Switch".
- 3. Look for a menu option or tab labeled "VLAN" or "VLAN Management".
- 4. Check or click on the option to enable/create VLANs.

Dimensions:

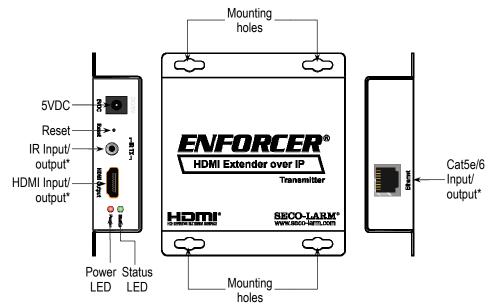
Cable Legend:

HDMI Power



Transmitter and receiver have the same dimensions

Overview:



*Input/output depends on whether the unit is a transmitter or receiver

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Cable Legend:

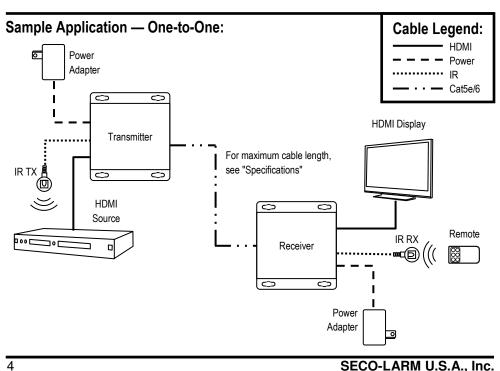
HDMI

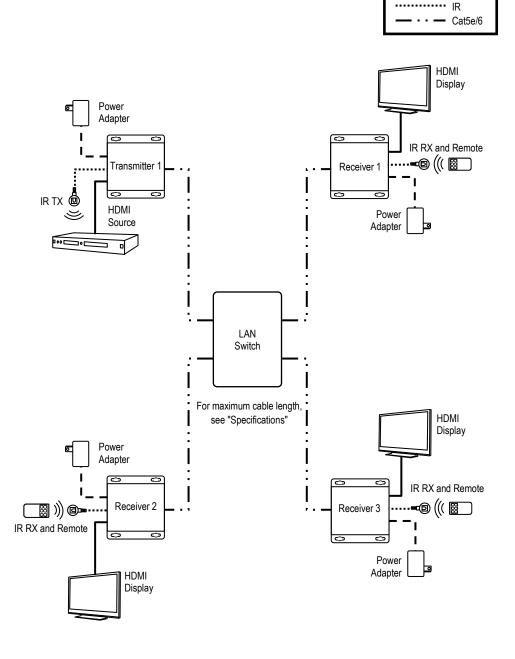
Power

Installation:

NOTE: For One-to-Many and Many-to-Many installations, each receiver/transmitter's IP and MAC addresses must be unique. See "Changing the IP and MAC Address" on pgs. 7-8 before installation.

- 1. Determine the location where the HDMI Extender over IP units will be installed as well as how much Cat5e/6 cable will be necessary.
- 2. Connect the transmitter to the HDMI output of the source device.
- 3. Connect the transmitter and receiver:
 - a. If connecting One-to-One, connect one end of the Cat5e/6 cable to the transmitter and the other end directly to the receiver.
 - b. If installing with a switch or router, connect one end of the Cat5e/6 cable to the transmitter and the other end to a switch or router. Then, with a second Cat5e/6 cable connect the receiver to the other end of the switch or router.
- 4. Connect the receiver to the HDMI input of the display or other device.
- Connect one 5VDC adapter to the transmitter and the other to the receiver. 5.
- 6. Determine which device, if any, will be controlled by remote control.
 - a. Install the IR transmitter to the IR port near the device to be controlled, pointing the IR transmitter at its IR sensor.
 - b. Install the IR receiver to the IR port of the other transmitter/receiver, pointing the IR receiver in a direct line of sight to where the remote control will be.
 - c. Point the remote control at the IR receiver when in use.
- 7. Switch on the HDMI source and display to verify that the system is functioning properly. It may take up to a minute to sync up the video stream.





Sample Application — One-to-Many, Switch/Router:

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4