

AMX Precis® HDBaseT™ Receiver and Scaler

For use with the Precis 8x8 4K60 HDMI matrix switcher

PR01-RX (FG1020-050)

Front



Rear



Overview

The AMX Precis PR01-RX HDBaseT Receiver and Scaler provides a cost-effective end-point for the AMX Precis 8x8 HDMI Matrix Switcher. The affordable PR01-RX receiver provides built-in scaling, network pass-through, and network configuration, offering a cost-effective solution for distributing video outputs from the Precis 8x8 over longer distances without degrading video quality. The addition of built-in scaling on the Precis PR01-RX provides clean transitions when switching between sources and an output that matches the display resolution regardless of the source.

Common Applications

For use with the Precis 8x8 4K60 HDMI Matrix Switcher.

Features

- **4K60 Support with Built-in Scaling** – Experience pixel-for-pixel video reproduction of 4K60 source video
- **Scaling** – Automatically converts signals up or down to match the resolution of the display
- **HDBaseT Support** – Uses the global standard for transmission of ultra-HD A/V, Ethernet, controls, USB and up to 100W of power over a single, long-distance cable
- **NetLinx Native** – Easy integration with AMX automation systems

Specifications – Subject to Change

General	
Dimensions	5.63 in (14.3 cm) depth 9.22 in (23.44 cm) width .98 in (2.5 cm) height
Weight	Approx. 2.2 (1 kg)
Shipping Weight	TBD
Mounting Options	Includes V-Style surface mount brackets
Compatible AMX Products	PR01-0808 HDBaseT Outputs
MTBF	TBD
Airflow Approvals	Convection (openings on sides of case)
Regulatory Compliance	TBD
Twisted Pair Cable Type	Shielded Cat6, Cat6A and Cat7* / Shielded Cat6A and Cat7
Twisted Pair Cable Length	Up to 262 ft. (80 m) for full 4K signal support Up to 328 ft. (100 m) for 1080p and below
Included Accessories	1x 12V/3APower Adapter 1x US AC Cable 1x EU AC Cable 1x UK AC Cable 2x 3P-3.5MM Phoenix Connectors 1x 2P-3.5MM Phoenix Connectors 1x IR Receiver 2x mounting ear 4x M2.5 screw (for mounting ears)

HDBaseT	
HDBaseT Layer Throughput (Max)	10.2 Gbps
Important Notice	DXLink twisted pair cable runs for DXLink equipment shall only be run within a common building.

Active Power Requirements	
AC Power	100-240 VAC single phase, 50-60 Hz
Power Consumption, Local 12V Supplied (Max)	16.4W
Power Connector	Screw Down Locking Power Connector

Power Supply	
External, Included	DC 12V 3A

Environmental	
Temperature (Operating)	32° F to 113° F (0° C to 45° C)
Temperature (Storage)	-4° to 140° F (-20° to 70° C)
Humidity (Operating)	10% to 90% RH (non-condensing)
Humidity (Storage)	10% to 90% RH (non-condensing)
Thermal Dissipation, Local 12V Supplied (Max)	55.95 BTU/hr

Back Connectors	
Local Power	Screw Down Locking Power Connector
LAN10/100 Ethernet Port	(2) RJ-45 Connector, TCP/IP Port (ICS LAN 10/100)
HDBaseT Input	(1) RJ-45
IR RX	3.5mm Mini-Stereo Jack
IR TX	3.5mm Pluggable Phoenix Terminal Block
HDMI Output	HDMI Type A Female
Analog Stereo Output	3 Position 3.5mm pluggable Phoenix Terminal Block
S/PDIF Digital Audio Output	RCA Jack

Serial	3 Position 3.5mm Pluggable Phoenix Terminal Block Bidirectional RS-232 Standard NetLinx Baud rate 1200-115k Parity support Odd/Even/None
--------	---

Front Indicators	
Power Indicators	Green LED, Solid ON when power is applied
Scaler	Green LED, Blinking when scaler is working properly
Status	Green LED, blinking
HDCP Indicator	Yellow LED, Blinking when Non-HDCP, Solid ON when HDCP
Link	Green LED, Solid ON when linked to HDBaseT Transmission Source

Rear Indicators	
Ethernet Link/Act Indicator	(2) Link/Activity LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ - 45
Ethernet Speed Indicator	(2) Speed LED (yellow) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbp

HDMI	
Compatible Formats	HDMI , HDCP
Signal Type Support	HDMI, DisplayPort++ (input only with HDMI cable adapter)
Input Signal Type	HDBaseT from PR01-0808 Matrix Switcher HDBaseT Output
Output Signal Type	HDMI
Output Connector	HDMI Type A Female
Output Scaling	Auto or Manual
Output Scaling Resolutions	800x600 @ 60 Hz 1280x720 p @ 50 Hz, 59.95 Hz, 60 Hz 1024x768 @ 60 Hz 1280x768, @ 60 Hz 1280x800 @ 60 Hz 1280x960 @ 60 Hz 1280x1024 @ 60 Hz 1360x768 @ 60 Hz 1366x768 @ 60 Hz 1440x900 @ 60 Hz 1600x900 @ 60 Hz 1600x1200 @ 60 Hz 1680x1050 @ 60 Hz 1920x1080 p @ 50 hz, 59.94 Hz, 60 Hz 1920x1200 @ 60 Hz 3840x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz 4096x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz
Data Rate (Max)	18 Gbp (Output)
Pixel Clock (Max)	Up to 600 Mhz (Output) 300 Mhz (Input Signals)
HDBaseT Input Resolution Support	VESA 800x600 @ 60 Hz 1024x768 @ 60 Hz 1280x768, @ 60 Hz 1280x800 @ 60 Hz 1280x960 @ 60 Hz 1280x1024 @ 60 Hz 1360x768 @ 60 Hz 1366x768 @ 60 Hz

	<p>1440x900 @ 60 Hz 1600x900 @ 60 Hz 1600x1200 @ 60 Hz 1680x1050 @ 60 Hz 1920x1200 @ 60 Hz 2048x1152 @ 60 Hz 3840x2160 @ 24 Hz, 25Hz, 30 Hz 4096x2160 @ 24 Hz, 25Hz, 30 Hz</p> <p>SMPT: 720x480 @ 59.94 Hz, 60 Hz 720x576 p @ 50 Hz 1280x720 p @ 50 Hz, 59.95 Hz, 60 Hz 1920x1080 p @ 50 Hz, 59.94 Hz, 60 Hz</p> <p>Established Timing 1280 x 1024 @ 75 Hz 1152 x 870 @ 75 Hz 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz 832 x 624 @ 75 Hz 800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz 720 x 400 @ 70 Hz, 88 Hz 640 x 480 @ 60 Hz, 67 Hz, 72 Hz, 75 Hz</p> <p>CEA Information Code (VIC) Formats: VIC = 1, 640 x 480 p 59.94/60 Hz 4:3 VIC = 2, 720 x 480 p 59.94/60 Hz 4:3 VIC = 3, 720 x 480 p 59.94/60 Hz 16:9 VIC = 4, 1280 x 720 p 59.94/60 Hz 16:9 VIC = 5, 1920 x 1080 i 59.94/60 Hz 16:9 VIC = 6, 720(1440) x 480 i 59.94/60 Hz 4:3 VIC = 7, 720(1440) x 480 i 59.94/60 Hz 16:9 VIC = 14, 1440 x 480 p 59.94/60 Hz 4:3 VIC = 15, 1440 x 480 p 59.94/60 Hz 16:9 VIC = 16, 1920 x 1080 p 59.94/60 Hz 16:9 VIC = 17, 720 x 576 p 50 Hz 4:3 VIC = 18, 720 x 576 p 50 Hz 16:9 VIC = 19, 1280 x 720 p 50 Hz 16:9 VIC = 20, 1920 x 1080 i 50 Hz 16:9 VIC = 21, 720(1440) x 576 i 50 Hz 4:3 VIC = 22, 720(1440) x 576 i 50 Hz 16:9 VIC = 29, 1440 x 576 p 50 Hz 4:3 VIC = 30, 1440 x 576 p 50 Hz 16:9 VIC = 30, 1440 x 576 p 50 Hz 16:9 VIC = 31, 1920 x 1080 p 50 Hz 16:9 VIC = 32, 1920 x 1080 p 23.97/24 Hz 16:9 VIC = 33, 1920 x 1080 p 25 Hz 16:9 VIC = 34, 1920 x 1080 p 29.97/30 Hz 16:9 VIC = 39, 1920 x 1080 i 50 Hz 16:9 VIC = 41, 1280 x 720 p 100 Hz 16:9 VIC = 42, 720 x 576 p 100 Hz 4:3 VIC = 43, 720 x 576 p 100 Hz 16:9 VIC = 44, 720(1440) x 576 i 100 Hz 4:3 VIC = 45, 720(1440) x 576 i 100 Hz 16:9</p>
HDBaseT 4K Format Support	<p>3840x2160p@24/25/30 Hz, 4:4:4 4096x2160p@24/25/30 Hz, 4:4:4 3840x2160p@50/60 Hz, 4:2:0 4096x2160p@50/60 Hz, 4:2:0</p>
Audio Format Support	2 CH L-PCM

Local Audio Support	RX Extraction
HDCP Support	Yes HDCP 1.4, 2.2
CEC Support	Yes Automatic or NetLinx programmable
Audio Outputs	
Output Signal Types	Stereo analog, S/PDIF

About AMX by HARMAN

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 7.17.17. ©2017 Harman. All rights reserved. Specifications subject to change.

www.amx.com | +1.469.624.7400 | 800.222.0193