AMX 8x8 4K60 HDMI Switcher

Fixed matrix switching solution with 4 HDMI inputs and 4 HDMI outputs
PR-0808 (FG# AMX-PR-0808)

Overview

The AMX Precis 8x8 4K60 HDMI Switcher is an extremely affordable yet fully featured HDMI video routing solution for a range of small and medium-sized installations. Featuring 8 HDMI inputs and 8 HDMI outputs, it includes best-in-class capabilities like pixel-for-pixel video reproduction, comprehensive EDID management, and extreme control flexibility with an open control API and a simple-to-manage web interface.

The PR-0808 supports high quality HDMI 2.0, HDCP 2.2, High Dynamic Range (HDR), and 36-bit per pixel Deep Color. Onboard dynamic audio de-embedding offers maximum configuration flexibility. Combining a robust matrix switcher and a highly affordable price point, backed by over 30 years of industry-leading matrix switching experience, the AMX Precis PR-0808 can be trusted to deliver an exceptional switching solution.

Common Applications

The Precis PR-0808 4K60 HDMI Switcher is the ideal choice for beautiful, cost effective 4K60 4:4:4 matrix switching in meeting spaces, classrooms, lecture halls, houses of worship and more.

Features

Perfect 4K60 4:4:4 Video - Ideal for users that can benefit from processing the full fidelity of their displays

High Dynamic Range (HDR) and Deep Color Support – Support HDR10, HDR10+, Dolby Vision, and 36-bit per pixel deep color

HDMI 2.0 & HDCP 2.2 - Supports the latest video standards to realize the full capabilities of HDMI interfaces

EDID Management - Provides comprehensive management of EDID to ensure that every source is displayed at the optimal resolution and format

Audio De-Embedding – Includes the convenience of analog audio de-embedding from each HDMI output separately

H-Control Upgradable – Ready to support H-control in the future by firmware re-writing via USB.

Multiple Control Options – Multiple control options are available including: Open API Control over IP and Serial, full Web GUI console, and front panel buttons

Specifications

General	
Dimensions	10.59 in (26.9cm) depth 17.24 in (43.8m) width 1.73 in (4.4cm) height
Weight	Approx. 7.9 lbs (3.6 kg)
Shipping Weight	Approx. 12.8 lbs (5.8 kg)
Mounting Options	Includes mounting brackets
MTBF	233,240 hrs
Airflow Approvals	Forced air cooling from right to left (openings on sides of case)
Regulatory Compliance	FCC Part 15 Class B EN 55032 EN 55035 CB IEC/EN 60950 CB IEC/EN 62368-1 UL 62368-1 RoHS/REACH EMC (Australia) EMC (Canada) EMC (UKCA) Prop65
Included Accessories	1x 12V/7.5A DC Power Adapter 1x AC Power Cable with US Pins 1x AC Power Cable with UK Pins 1x AC Power Cable with EU Pins 8x 3-Pin Terminal Blocks 2x Mounting Ears

Active Power Requirements	
AC Power	12 VDC 7.5A Max Output; 100-240V 50/60Hz AC Input
Power Consumption	73.6 Watts max 26 Watts idle
Power Connector	2.5 mm Screw Down Locking Power Connector

Power Supply	
External, Included	Yes

Environmental	
Temperature (Operating)	32°F (0°C) to 122°F (50°C)
Temperature (Storage)	-4°F (-20°C) to 140°F (60°C)
Humidity (Operating)	10% to 90% RH (non-condensing)
Humidity (Storage)	10% to 90% RH (non-condensing)
Thermal Dissipation (Max)	251.1 BTU/hr

Back Connectors

DC Power	2.5 mm Screw Down Locking Power Connector
HDMI Input	(8) HDMI Type A Port
HDMI Output	(8) HDMI Type A Port
LAN10/100 Ethernet Port	RJ-45 Connector, TCP/IP Port
Analog Stereo Output	(8) 3 Position 3.5mm pluggable Phoenix Terminal Blocks
RS-232 Port	(1) 3 Position 3.5 mm pluggable Phoenix Terminal Block

Controls and Indicators

Ethernet Link/Act Indicator	(1) Link/Activity LED (yellow) blinks when receiving Ethernet data packets, one on Ethernet RJ-45
Ethernet Speed Indicator	(1) Speed LED (green) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbps
LCD Display	Liquid crystal display (2 lines with 20 characters per line) indicates current audio/video routing status and displays the menus
Menu Navigation Pushbuttons	(1) Menu Button, (1) Enter Button, (1) + Button, (1) - Button
Switch Pushbuttons	(8) Input Buttons, (8) Output Buttons, (1) Take Button, (1) Cancel Button

Matrix Switcher

Video Switching	8x8 audio and video matrix switching
Video Inputs	(8) HDMI; supports HDMI/HDCP
Video Outputs	(8) HDMI; supports HDMI/HDCP
HDCP Support	Yes; HDCP 1.4 and 2.2 Key Management System for Fast Switching
EDID Management	A preferred EDID can be selected for each input or any display EDID can be mirrored to any input independently

HDMI

Compatible Formats	HDMI, HDCP
Signal Type Support	HDMI
HDMI Supported Input Resolutions	**VESA** 640x480 @ 60, 72, 75 Hz 720 x 400 @ 70, 85 Hz 800 x 600 @ 56, 60, 72, 75, 85 Hz 848 x 480 @ 60 Hz 1024 x 768 @ 60, 70, 75, 85 Hz 1152 x 864 @ 75 Hz 1280 x 768 @ 60 Hz, 75 Hz 1280 x 800 @ 60 Hz (Reduce Blanking) 1280 x 960 @ 60 Hz 1280 x 1024 @ 60, 85 Hz 1360 x 768 @ 60, 75, 85 Hz 1366 x 768 @ 60 Hz (Reduce Blanking) 1400 x 1050 @ 60 Hz (Reduce Blanking), 75 Hz 1440 x 900 @ 60 Hz (Reduce Blanking), 75, 85 Hz 1600 x 900 @ 60 Hz (Reduce Blanking) 1600 x 1200 @ 60 Hz 1680 x 1050 @ 60 Hz (Reduce Blanking) 1920 x 1200 @ 60 Hz (Reduce Blanking) 1920 x 1200 @ 60 Hz 1920 x 1440 @ 60 Hz 2048 x 1080 @ 50, 60 Hz 2560 x 1440 @ 60 Hz (Reduce Blanking) 2560 x 1600 @ 60 Hz (Reduce Blanking) 3840 x 2160 @ 60 Hz (Reduce Blanking) **CEA Information Code (VIC) Formats** 720 x 480i @ 59.94, 60 Hz 720 x 576i @ 50 Hz 720 x 480p @ 59.94, 60 Hz 720 x 576p @ 50 Hz 1280 x 720p @ 50, 59.94, 60 Hz 1920 x 1080i @ 50, 59.94, 60 Hz 1920 x 1080p @ 24, 25, 29.97, 30, 50, 59.94, 60 Hz 2560 x 1080p @ 50, 60 Hz 3840 x 2160p @ 24, 25, 29.97, 30, 50, 59.94, 60 Hz 4096 x 2160p @ 24, 25, 29.97, 30, 50, 59.94, 60 Hz
Output Signal Type	HDMI, HDCP

Output Connector	HDMI Type A Port
Output Resolutions	Matched to Input
Input Video Level	.8 - 1.2 V p-p
Data Rate (Max)	18 Gbps
Pixel Clock (Max)	Up to 600 Mhz
Resolution Support	Various up to 4096 x 2160@ 60 Hz - Reference User Manual For Specific Resolution Support
Audio Format Support	PCM 2-Channel, PCM Multi-Channel, Dolby Digital, Dolby Digital Plus, Dolby Atmos, Dolby TrueHD, DTS, DTS HD MA
Local Audio Support	Output Extraction
HDCP Support	Yes, HDCP 1.4, 2.2
CEC Support	Yes, Automatic or programmable

Stereo Audio Output	
Output Signal Types	Unbalanced stereo analog
Analog Audio Output Level(Max)	+1.6 dBu, unbalanced; >= 2kohm load
Analog Audio Output Frequency Response	< -0.5 dB to +0.2 dB, 30 Hz to 20 kHz or < -0.8 dB to +0.2 dB, 20 Hz to 20 kHz
Analog Audio Output THD+N	<0.006%, 1 kHz, -10 dBU to +2 dBU
Analog Audio Output SNR	>102 dB, 20 Hz to 20 kHz Vin=+2 dBU