AMX Presentation Connectivity and Transport Kit

3x1 4K30 digital switcher transmitter and receiver solution with scaler and extender
CTP-1301 (FG1010-710)

Transmitter Front & Rear

Receiver Front & Rear

Overview

The AMX Connectivity and Transport (CT) Series is a family of 4K switching and distribution kits that combine switching, scaling and distance transport into a single kit that includes both a transmitter and receiver. The solutions deliver added value and flexibility to conferencing and presentation solutions by providing a single, simple to implement solution that offers switching and connectivity where you need it along with unified control of both the transmitter and receiver—all over a single category cable. Solutions available include a Presentation kit, targeting simple presentation environments, and a Conferencing kit, targeting web conferencing applications.

The CT Presentation solution includes connectivity, scaling and distance transport to a receiver at a very attractive price point.

Common Applications

The CT Presentation kit was designed to address the needs of simple presentation environments, including 4K switching at the table, transport over category cable, and additional connectivity at the receiver for an AMX Acendo Core or a room PC at the receiver, as well as scaling and output to the display.

Features

- **4K30 Support –** Future proof for 4K source devices and displays
- **Inputs (TX) –** Transmitter includes 2x HDMI and 1x VGA inputs
- **Outputs(RX) –** Receiver includes 1x HDMI input and scaled HDMI output
- **Distance Transport –** Eliminates the need for additional cable extenders by connecting the TX and RX with a single category cable
- **Simplified Room Control –** Control the display or projector and a screen from built-in control ports on the RX; transmitter and receiver connect via a single category cable

Specifications – Subject to Change

General	
Dimensions	CTP-1301TX 3.70 in (9.4 cm) depth 7.67 in (19.47 cm) width 0.98 in (2.5 cm) height CTP-1301RX 6.03 in (15.3 cm) depth 8.78 in (22.3 cm) width 0.98 in (2.5 cm) height
Weight	CTP-1301TX Approx. 2.14 lb (0.97kg) CTP-1301RX Approx. 2.07 lb (0.94 kg)
Shipping Weight	TBD
Mounting Options	Includes V-Style surface mount brackets
AMX Products Compatible with HDBaseT Inputs	CTP-1301TX / CTP-1301RX
MTBF	TBD
Airflow Approvals	CTP1301TX - Convection (openings on sides of case) CT{1301RX - Convection (openings on top/bottom of case)
Regulatory Compliance	TBD
Twisted Pair Cable Type	Shielded Cat6, Cat6A and Cat7* / Shielded Cat6A and Cat7
Twisted Pair Cable Length	Up to 115 ft. (35 m)
Included Accessories	5 x 3P-3.5MM Phoenix Connectors 1 x 12V/3APower Adapter 1 x US AC Cable 1 x EU AC Cable 1 x UK AC Cable 4 x mounting ear 8 x M2.5 screw (for mounting ears)

Active Power Requirements	
AC Power	12 VDC 2A Max Output; 100-240V 50/60Hz AC Input
Power Consumption (Max)	CTP-1301TX - 7 Watts CTP-1301RX - 17 Watts
Power Connector	Screw Down Locking Power Connector

Power Supply	
External, Included	DC 12V 3A (CTP-1301TX receivers power from CTP-1301RX)

Environmental	
Temperature (Operating)	32° F to 113° F (0° C to 45° C)
Temperature (Storage)	-4° to 158° F (-20° to 70° C)
Humidity (Operating)	10% to 90% RH (non-condensing)
Humidity (Storage)	10% to 90% RH (non-condensing)
Thermal Dissipation	CTP-1301TX - 23.9 BTU/hr CTP-1301RX - 58 Watts BTU/hr

Back Connectors – CTP-1301 TX	
DC Power	Screw Down Locking Power Connector
HDMI Input	(2) HDMI Type A Female Connector
VGA Inputs	(1) HD-15 Connectors
HDBaseT Outputs	RJ-45

Analog Stereo Input	(1) 3.5 mm Mini-Stereo Jack
RS-232 Extended Control	(1) 3 Position 3.5 mm pluggable Phoenix Terminal Blocks

Back Connectors – CTP-1301 RX	
DC Power	Screw Down Locking Power Connector
HDMI Input	(1) HDMI Type A Female Connector
HDMI Output	(1) HDMI Type A Female Connector
Analog Stereo Output	(1) 3-pin 3.5 mm Screw Terminal Connector
LAN10/100 Ethernet Port	(1) RJ-45 Connector, TCP/IP Port (ICS LAN 10/100)
HDBaseT Input	RJ-45
RS-232 Extended Control	(1) 3 Position 3.5 mm pluggable Phoenix Terminal Blocks
Relay Control	(2) 3 Position 3.5 mm pluggable Phoenix Terminal Blocks

Controls and Indicators – CTP-1301 TX	
Input Status Indicator	(3) Tri-Color LED indicating selected input and signal presence on each input
Input Selection Buttons	(3) Selects active input
Auto LED	(1) Indicates Auto Switching Enabled/Disabled
Auto Button	Enables/Disables Auto Switching
HDBaseT Link	(1) On indicates link to CTP-1301-RX
HDBaseT HDCP Status	(1) On indicates HDCP, flashing indicates non-HDCP
Power Indicator	(1) Power LED (green) indicates the unit is powered on
Status Indicator	(1) Power LED (green) flashing indicates the unit is functioning properly

Controls and Indicators – CTP-1301 RX	
Input Status Indicator	(2) Tri-Color LED indicating selected input and signal presence on each input
Input Selection Buttons	(2) Selects active input
Auto LED	(1) Indicates Auto Switching Enabled/Disabled
Auto Button	Enables/Disables Auto Switching
Ethernet Link/Act Indicator	(1) Link/Activity LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ - 45
Ethernet Speed Indicator	(1) Speed LED (yellow) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbps
Link	(1) On Front Panel (green) On indicates link to CTP-1301TX
HDCP	(1) On Front Panel (yellow) On indicates HDCP, flashing indicates non-HDCP
Power Indicator	(1) Power LED (green) indicates the unit is powered on
Scaler	(1) LED (green) indicates the scaler is functioning properly

Integrated Switching CTP-1301 TX/RX	
Video Switching	3x1 TX switching combined with a 2x1 Receiver switching to select between TX HDBaseT Source or HDMI RX source - audio switches with video. Full 4x1 switching
Video Inputs	(1) HD-15; supports RGBHV (3) HDMI; supports HDMI/HDCP (1) HDBaseT (to connected TX/RX)
Video Outputs	(1) HDMI; supports HDMI/HDCP (On RX) (1) HDBaseT (to connect TX/RX)

HDCP Support	Yes; HDCP 1.4 and 2.2 Key Management System
EDID Management	A preferred EDID can be selected for each input

HDMI	
Compatible Formats	HDMI 2.0, 1.X, HDCP 2.2
Signal Type Support	HDMI, DisplayPort++ (input only with HDMI cable adapter)
HDMI Supported Input Resolutions	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 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 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 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 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
Output Signal Type	HDMI, HDCP
Output Connector	HDMI Type A Female
Output Scaling	Yes, Auto or Manual
	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
Output Scaling Resolutions	4096x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz
Input Video Level	.5 - 1.2 V p-p
HDBaseT Data Rate	10 Gbps
Input Pixel Clock (max)	Up to 300 Mhz
HDMI Output Pixel Clock (max)	Up to 600 Mhz
Audio Format Support	2 CH L-PCM
Local Audio Support	TX Insertion / RX Extraction
HDCP Support	Yes HDCP 1.4, 2.2
CEC Support	Yes Automatic or NetLinx programmable

Analog Video	
Compatible Formats	RGBHV
Input Connector	HD-15
Resolution Support	Up to 1920x1200@60Hz Reduced Blanking
Auto-Adjust Input	Supported
Digital Processing	24-bit, 165 Mhz

Signal Processing	
Connector	(1) RJ-45
Transport Layer Throughput (Max)	10.2 Gbps
Output Formats	Connects TX to RX

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.

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