AMX JETPACK

3x1 Switching, Transport, and Control Solution

JPK-1300



JPK-1300-UA
US/AU version Wall-plate
Transmitter and Keypad



JPK-1300-EK
EU/UK version Wall-plate
Transmitter and Keypad

Overview

AMX Jetpack is an incredibly affordable switching, transport, and control solution for K12 classrooms and small-to-medium meeting spaces that provides simple to operate room controls, multiple video inputs, and enables voice lift for clear communication with everyone in the space. The JPK-1300 combines 4K60 4:2:0 HDMI and USB-C video switching and distance transport, room control, wallplate accessibility, and audio amplification in a kit that requires zero programming and provides the security and reliability that AMX is well known to provide.

The kit is fully loaded to support a wide range of classroom and meeting space applications and can be controlled through panel buttons, RS-232, Telnet, SSH, a Web GUI, and the Jetpack Manager application.

The kit includes:

- 6-Button Keypad with volume knob
- 3-Input Switching Wallplate Transmitter (2 HDMI, 1 USB-C) includes auto and manual switching modes, and support for transmission of uncompressed video and audio up to 40m/131ft at 4K or 70m/230ft at 1080P over shielded Cat 6/6A/7 cable
- Multi-Function Receiver with Built-In 2x25W 4/8-ohm Amplifier, USB signal pass-through, RS232 control, Relay, IR, mic/line input, line out, remote mute, audio de-embedding, USB-AUDIO, ARC function, and CEC control (Embedded HDBaseT™ technology allows for full usage of HDMI and controls over Cat 6/6A/7 cable.)
- Web Configuration for simplified installation
- Jetpack Manager application included for campus wide room and device management

The kit is available in two models – JPK-1300-UA (US/AU version) and JPK-1300-EK (EU/UK version). It is the ideal solution for K12 and other education applications as well as enterprise and hospitality venues needing affordable, multi-functional A/V support for classrooms and small-to-medium meeting spaces that could benefit from a bundled product offering 4K60 video transmission and switching, room and device control, audio amplification, simplified web configuration and campus management.

General	
Dimensions (W x H x D)	UA version: · Keypad: Front panel: 70mm x 114mm x 22.2mm / 2.76” x 4.49” x 0.87” Rear case: 69.4mm x 48.4mm x 17.2mm / 2.73” x 1.91” x 0.68” · Wall-plate Transmitter: Front panel: 116mm x 114mm x 39.2mm / 4.57” x 4.49” x 1.54” Rear case: 85.8mm x 52.6mm x 34.2mm / 3.38” x 2.07” x 1.35” · Receiver: 250mm x 30mm x 104mm / 9.84” x 1.18” x 4.09” EK version: · Keypad: Front panel: 146mm x 85mm x 22.2mm / 5.75” x 3.35” x 0.87” Rear case: 69.4mm x 48.4mm x 17.2mm / 2.73” x 1.91” x 0.68” · Wall-plate Transmitter: Front panel: 146mm x 85mm x 39.2mm / 5.75” x 3.35” x 1.54” Rear case: 85.8mm x 52.6mm x 34.2mm / 3.38” x 2.07” x 1.35” · Receiver: 250mm x 30mm x 104mm / 9.84” x 1.18” x 4.09”
Weight	UA version: · Keypad: 0.19kg/0.42lb · Wall-plate Transmitter: 0.35kg/0.77lb · Receiver: 0.81kg/1.79lb EK version: · Keypad: 0.23kg/0.51lb · Wall-plate Transmitter: 0.33kg/0.73lb · Receiver: 0.81kg/1.79lb
Shipping Weight	UA version: Approx. 6.08 lbs. (2.76 kg) EK version: Approx. 6.37 lbs. (2.89 kg)
Mounting Options	Includes V-Style surface mount brackets
AMX Products Compatible with AV LINK	JPK-1300 TX / JPK-1300 RX
MTBF	583,424 hrs.
Airflow Approvals	JPK-1300 TX - Convection (openings on top/bottom of case) JPK-1300 RX - Convection (openings on top/bottom 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
Twisted Pair Cable Type	Shielded Cat6/6A/7
Twisted Pair Cable Length	AV LINK: Up to 131ft/40m for 4K or 230ft/70m for 1080p CONTROL: Up to 164ft/50m
Included Accessories	UA version: · 1 x Wall-plate Transmitter (with Screws) · 1 x Keypad (with Screws) · 1 x Receiver · 1 x Phoenix Connector (3.81mm, 2 Pins) · 4 x Phoenix Connector (3.81mm, 3 Pins) · 1 x Phoenix Connector (5.08mm, 4 Pins) · 1 x IR Wideband Emitter Cable (1.5 meters) · 2 x Mounting Bracket (with Screws) · 1 x DC 24V/3.75A Power Adapter · 2 x Power Cord (IEC Type B & IEC Type I) EK version: · 1 x Wall-plate Transmitter (with Screws) · 1 x Keypad (with Screws) · 1 x Receiver · 1 x Phoenix Connector (3.81mm, 2 Pins) · 4 x Phoenix Connector (3.81mm, 3 Pins) · 1 x Phoenix Connector (5.08mm, 4 Pins) · 1 x IR Wideband Emitter Cable (1.5 meters) · 2 x Mounting Bracket (with Screws) · 1 x DC 24V/3.75A Power Adapter · 2 x Power Cord (IEC Type G and IEC Type E/F (CEE 7/7 Plug))

Active Power Requirements	
AC Power	24 VDC 3.75A Max Output; 100-240V 50/60Hz AC Input
Power Consumption (Max)	80 Watts (TX + RX + Keypad)
Power Connector	Screw Down Locking Power Connector

Power Supply	
External, Included	DC 24V 3.75A (JPK-1300 TX receives power from JPK-1300 RX; JPK-1300 Keypad receives power from JPK-1300 TX)

Environmental	
Temperature (Operating)	32° F to 104° F (0° C to 40° C)
Temperature (Storage)	-4° to 140° F (-20° to 60° C)
Humidity (Operating)	20% to 90% RH (non-condensing)
Humidity (Storage)	20% to 90% RH (non-condensing)
Thermal Dissipation	273 BTU/hr. (TX + RX + Keypad)

Connectors – JPK-1300 Keypad	
CONTROL	(1) RJ-45
Micro USB	(1) Micro USB Port

Connectors – JPK-1300 TX	
HDMI IN	(2) HDMI Type A Port
USB-C IN	(1) USB Type C Port
USB HOST	(1) USB Type B Port
Micro USB	(1) Micro USB Port
AV LINK	(1) RJ-45
CONTROL	(1) RJ-45

Connectors – JPK-1300 RX	
DC Power	Screw Down Locking Power Connector
HDMI OUT	(1) HDMI Type A Port
USB DEVICE	(1) USB Type A Port
Micro USB	(1) Micro USB Port
IR OUT	(1) 3.5 mm Mini-Stereo Jack
LAN 10/100	(1) RJ-45, Ethernet Port
AV LINK	(1) RJ-45
RS-232	(1) 3-pin 3.81 mm pluggable Phoenix Terminal Blocks
RELAY (1-2)	(1) 3-pin 3.81 mm pluggable Phoenix Terminal Blocks
REMOTE MUTE	(1) 2-pin 3.81 mm pluggable Phoenix Terminal Blocks
AUDIO OUT	(1) 3-pin 3.81 mm pluggable Phoenix Terminal Blocks
AMP OUT	(1) 4-pin 5.08 mm pluggable Phoenix Terminal Blocks
MIC/LINE IN	(1) 3-pin 3.81 mm pluggable Phoenix Terminal Blocks

Controls and Indicators – JPK-1300 Keypad	
Volume Knob and Volume Level Indicator	Use the volume knob to adjust the audio output volume, the corresponding volume level indicator will be on. ・Rotating clockwise will increase the audio volume. ・Rotating counterclockwise will decrease the audio volume. ・Pressing the knob will mute or unmute the audio volume.
DISPLAY ON Button	(1) Turns on the display device
DISPLAY OFF Button	(1) Turns off the display device
HDMI 1 Button	(1) Selects HDMI IN 1 port as the input signal channel
HDMI 2 Button	(1) Selects HDMI IN 2 port as the input signal channel
USB-C Button	(1) Selects USB-C IN port as the input signal channel
SYSTEM ON/OFF Button	(1) Press to turn on the system; Press and hold for three seconds to turn off the system

Controls and Indicators – JPK-1300 TX	
Power Indicator	(1) PWR LED (green) indicates the unit is powered on
LINK Indicator	(1) On indicates link to JPK-1300-RX
HDCP Indicator	(1) On indicates HDCP, Off indicates non-HDCP
Input Status Indicator	(3) HDMI 1/ HDMI 2/ USB-C LED (green) indicating selected input
Input Selection Button	(1) Selects active input
IR Receiving Window	(1) IR pass-through or IR learning

Controls and Indicators – JPK-1300 RX	
Power Indicator	(1) POWER LED (green) indicates the unit is powered on
Status Indicator	(1) STATUS LED (green) indicates the unit is functioning properly
LINK Indicator	(1) On indicates link to JPK-1300 TX
HDCP Indicator	(1) On indicates HDCP, Off indicates non-HDCP
RESET port	When JPK-1300 RX is powered on, use a pointed stylus to hold down the RESET button for five seconds, and then release it, it will reboot and restore to its factory defaults.
MIC/LINE Selection Switch	When selecting “MIC” with the switch, connect the MIC/LINE IN port to a dynamic microphone. When selecting “LINE” with the switch, connect the MIC/LINE IN port to a line-level audio source or wireless microphone.

Integrated Switching JPK-1300 TX/RX	
Video Switching	3x1 video switching Supports Auto and Manual switching
Video Inputs	(1) USB-C; supports DP Alt-mode and USB 2.0 (2) HDMI; supports HDMI/HDCP
Video Outputs	(1) HDMI; supports HDMI/HDCP
USB Pass-Through Bandwidth	Maximum Supported USB 2.0 Bandwidth - 220Mbps
HDCP Support	Yes, HDCP 1.4 and 2.2 Key Management System
EDID Management	A preferred EDID can be selected for the input

Video	
Input Compatible Formats	HDMI: HDMI 2.0, 1.x USB-C: DP Alt-mode, USB2.0
Input Signal Type	HDMI, DisplayPort (only input with HDMI cable adapter)
Output Compatible Formats	HDMI 2.0, 1.x
Input/Output Resolutions	640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p60Hz,1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 720x480i59.94Hz(480i59), 720x480p59.94Hz(480p59), 720x576i50Hz(576i50), 720x576p50Hz(576p50), 1280x720p50Hz(720p50), 1280x720p59.94Hz(720p59), 1280x720p60Hz(720p60), 1920x1080i50Hz(1080i50), 1920x1080i59.94Hz(1080i59), 1920x1080i60Hz(1080i60), 1920x1080p23.98Hz(1080p23), 1920x1080p24Hz(1080p24), 1920x1080p25Hz(1080p25), 1920x1080p29.97Hz(1080p29), 1920x1080p30Hz(1080p30), 1920x1080p50Hz(1080p50), 1920x1080p59.94Hz(1080p59), 1920x1080p60Hz(1080p60), 3840x2160p23.98Hz(2160p23), 3840x2160p24Hz(2160p24), 3840x2160p25Hz(2160p25), 3840x2160p29.97Hz(2160p29), 3840x2160p30Hz(2160p30), 3840x2160p50Hz(2160p50), 3840x2160p59.94Hz(2160p59), 3840x2160p60Hz(2160p60), 4096x2160p23.98Hz, 4096x2160p24Hz, 4096x2160p25Hz, 4096x2160p29.97Hz, 4096x2160p30Hz, 4096x2160p50Hz, 4096x2160p59.94Hz, 4096x2160p60Hz

Input Video Level	0.5 - 1.2 V p-p
AV LINK Data Rate	10.2 Gbps
Input Pixel Clock (max)	Up to 300 MHz
Output Pixel Clock (max)	Up to 300 MHz
HDCP Support	Yes, HDCP 1.4 and 2.2
CEC Support	Yes, Automatic

Audio	
Local Audio Support	Support USB2.0 audio on USB-C input (when not in DP Alt-mode) Support analog audio input (MIC/LINE IN) Support analog audio output (AUDIO OUT and AMP OUT) AUDIO OUT supports line-level unbalanced mono or stereo audio AMP OUT supports amplified, variable, mono or stereo audio
Audio Format Support	HDMI Pass-thru: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-ES, DTS-96/24, DTS High Res, DTS-HD MA, DSD Analog audio output: PCM 2.0
ARC Support	Yes, support on HDMI output
Audio Mixing Ratio	Microphone/Line In: 0 to 100% in 10% steps HDMI/USB-C/ARC In: 0 to 100% in 10% steps
Audio SNR	AMP: 95 dB @ full output, 1kHz A-weighted Line: 93 dB @ 2 V rms, 1kHz A-weighted
Audio THD+N	AMP: <0.3% @ 25 Watts, 20 Hz to 20 kHz Line: <0.1% @ 0 dBV, 1 kHz
Audio Output Sync Delay	0 to 200ms
Output Frequency Response	AMP: (+0.5 dB, -1 dB) 20 Hz to 20 kHz Line: (+0.5 dB, -1 dB) 20 Hz to 20 kHz
Amplifier Output Rated Power (Maximum)	2 x 25 W rms, 4 Ohms or 8 Ohms
Line Output Level (Maximum)	8.2dBu (2 V rms) @ 8 Ohms 5.8dBu (1.5 V rms) @ 4 Ohms
Line Output Impedance	200 Ohms

Microphone	
Microphone Input Support	Support one mono Mic or Line level input (MIC/LINE IN) Balanced (+, -, and GND) or unbalanced (+ and GND)
Microphone Input Level (Typical)	8.2dBu (2 V rms) @ Line level -25.74dBu (40 mV rms) @ Mic level
Microphone Input Level (Maximum)	16.2dBu (5 V rms) @ Line level -17.8dBu (100 mV rms) @ Mic level
Microphone Input Frequency Response	(+0.5 dB, -1 dB) 20 Hz to 20 kHz
Microphone Input Gain	-21dB to 0dB in 3dB steps
Microphone Input Impedance	>12k Ohms @ Line level 3.5k Ohms, accept 60 to 600 Ohms sources @ Mic level
Microphone Input Ducking	Trigger level: >75mV @ Line level, >1.5mV @ Mic level Ducking level: low, medium, and high Attack: 20 to 80 ms (auto) Release: 20 to 800 ms (auto)

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