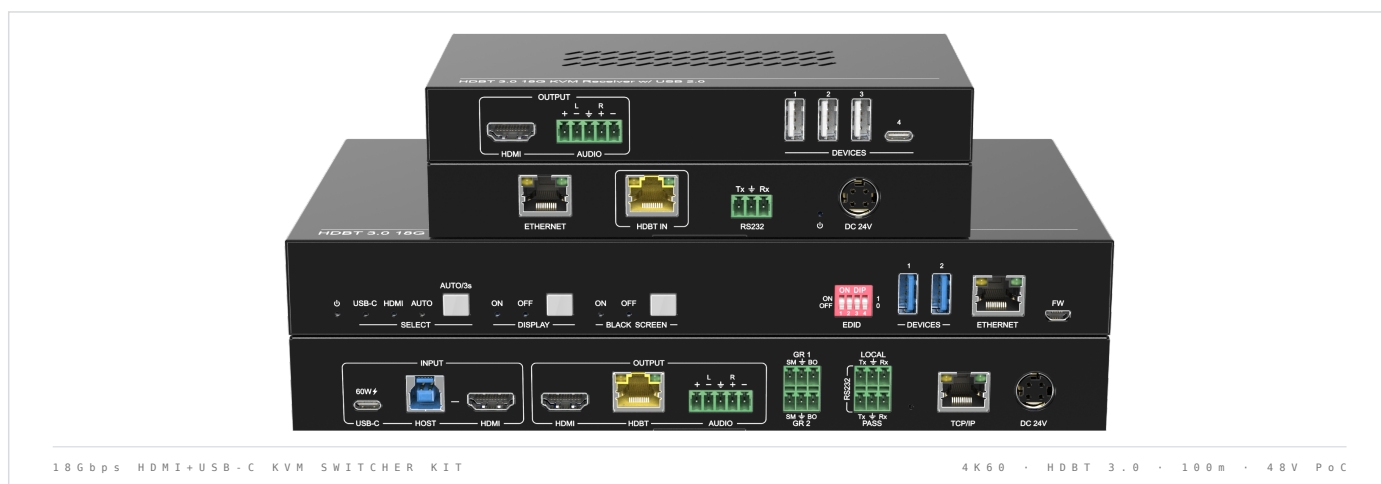


JIU21T - KVM

18Gbps HDMI+USB-C KVM SWITCHER KIT

4K60 KVM extension kit with HDBaseT 3.0, USB-C charging, 100m transmission and integrated AV control.

18 Gbps	4K60 4:4:4	HDBT 3.0	100 m	60W USB-C	48V PoC
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01 OVERVIEW

The Jistron JIU21T-KVM is an 18Gbps HDMI and USB-C KVM switcher kit for professional meeting-room and AV integration. It supports HDMI 2.0 video up to 4K@60Hz 4:4:4 with HDR10, Dolby Vision and HDCP 2.2, while HDBaseT 3.0 extends signals up to 100 meters. The system combines HDMI, USB-C, KVM devices, balanced audio, Ethernet, RS232, CEC, TCP/IP, dry-contact control and bidirectional 48V PoC in one transmitter/receiver solution.

02 KEY FEATURES

- 4K60 HDR video**
HDMI 2.0 support up to 4K@60Hz 4:4:4 with HDR10, Dolby Vision and HDCP 2.2.
- HDMI + USB-C inputs**
Selectable HDMI and USB-C inputs with automatic switching based on 5V or TMDS detection.
- KVM & USB peripherals**
USB device connectivity supports keyboards, mouse, microphones, printers, cameras and similar peripherals.
- Audio de-embedding**
Balanced 5-pin analog audio output is available at both transmitter and receiver.
- 100m HDBaseT 3.0**
Uncompressed long-distance signal transmission up to 100m with bidirectional 48V PoC.
- USB-C 60W charging**
USB-C input supports external charging up to 60W for connected host devices.
- Professional control**
RS232, CEC, TCP/IP, EDID, dry contact and GUI control support integrated AV operation.
- Network passthrough**
Integrated Ethernet ports support network passthrough across the installed system.

03 VIDEO, USB & CONTROL CAPABILITIES

HDMI 2.0	HDCP 2.2	HDBT 3.0	CEC	TCP/IP	RS232	EDID
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04 SIGNAL MANAGEMENT & SYSTEM FUNCTIONS

1 SOURCE SELECTION

Front-panel control and GUI can select HDMI, USB-C or Auto source mode.

3 EDID MANAGEMENT

Four-pin DIP switch and GUI provide built-in, learned and custom EDID options.

5 DISPLAY CONTROL

CEC and stored RS232 commands can be used for display on/off control with delay settings.

7 USB POWER CONTROL

GUI control can manage USB device power behavior at transmitter and receiver ports.

2 AUTO SWITCHING

Automatic switching can respond to 5V or TMDS detection depending on configuration.

4 AUTO DOWNSCALE

Transmitter and receiver outputs can be configured for automatic downscaling where required.

6 BLACK SCREEN

Local control provides output black-screen activation for presentation and room-control scenarios.

8 DRY CONTACT CONTROL

Dedicated dry-contact interfaces support source switching and black-screen functions.

05 CONNECTIVITY & INTEGRATION

■ HDBaseT 3.0 link

Carries high-bandwidth AV and associated system connectivity over a single long-distance link.

■ Ethernet passthrough

RJ45 interfaces allow Ethernet transport through the transmitter/receiver system.

■ Web GUI control

TCP/IP web interface provides source, EDID, HDCP, USB power, CEC, network and access settings.

■ Balanced analog audio

5-pin terminal-block outputs provide de-embedded stereo audio at Tx and Rx.

■ RS232 passthrough

Local serial control and bidirectional RS232 passthrough are supported between endpoints.

■ Firmware maintenance

Transmitter and receiver support firmware upgrade through the provided service interfaces.

06 TECHNICAL SPECIFICATIONS

VIDEO	
Transmitter video inputs	1 x HDMI IN, 1 x USB-C IN
Receiver video input	1 x HDBT IN (RJ45)
Transmitter video outputs	1 x HDMI OUT, 1 x HDBT OUT
Receiver video output	1 x HDMI OUT
HDMI input resolution	Up to 4K@60Hz 4:4:4, HDR10, Dolby Vision
USB-C input resolution	Up to 4K@60Hz 4:4:4
HDBT output resolution	Up to 4K@60Hz 4:2:0
Receiver HDMI output	Up to 4K@60Hz 4:4:4, HDR10, Dolby Vision
HDMI standard	Up to HDMI 2.0b
HDCP version	Up to HDCP 2.2

AUDIO	
HDMI embedded audio	LPCM 7.1, Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, DTS:X and DTS-HD Master Audio pass-through
Analog audio outputs	1 x 5-pin balanced terminal block on transmitter; 1 x 5-pin balanced terminal block on receiver
Frequency response	20Hz - 20kHz, +/-3dB
THD+N	< 0.05% (-80dB), 20Hz - 20kHz bandwidth
SNR	> 80dB, 20Hz - 20kHz bandwidth
Crosstalk isolation	< -80dB

CONTROL & USB	
Control interfaces	EDID DIP switch, RS232, CEC, TCP/IP, GUI and dry contact
Transmitter USB devices	2 x USB-A 3.0
Receiver USB devices	3 x USB-A 2.0, 1 x USB-C
USB-C host charging	Up to 60W external charging
Network	Ethernet passthrough; TCP/IP control on transmitter

06 TECHNICAL SPECIFICATIONS - CONTINUED

GENERAL	
Transmission technology	HDBaseT 3.0; up to 100m transmission
PoC	Bidirectional 48V PoC
Operating temperature	-5°C to +55°C
Storage temperature	-25°C to +70°C
Relative humidity	10% - 90%
External power supply	Input: AC 100-240V, 50/60Hz; Output: 24V DC 5A
Power consumption	76.5W max.
USB-C power charging	60W max.
Transmitter dimensions	265 x 150 x 32 mm
Receiver dimensions	173 x 95 x 24.5 mm
Transmitter net weight	1020 g
Receiver net weight	410 g

07 ORDERING INFORMATION

MODEL	DESCRIPTION	KEY CAPABILITIES
JIU21T-KVM	18Gbps HDMI+USB-C KVM Switcher Kit with transmitter and receiver	4K60 · HDBT 3.0 · 100m · 60W USB-C · 48V PoC

Specifications are derived from the JIU21T-KVM product documentation and are subject to change without prior notice.

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies professional conference, control and AV infrastructure solutions for meeting rooms, command environments and integrated installations.

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