4K60 HDMI 2.0

Fiber Extender

Model: FCP-1530-VJ1AA1D1

4K60 4:4:4 · One embedded HDMI audio channel
One 3.5 mm analog audio interface
One serial port, three options · 5 V DC



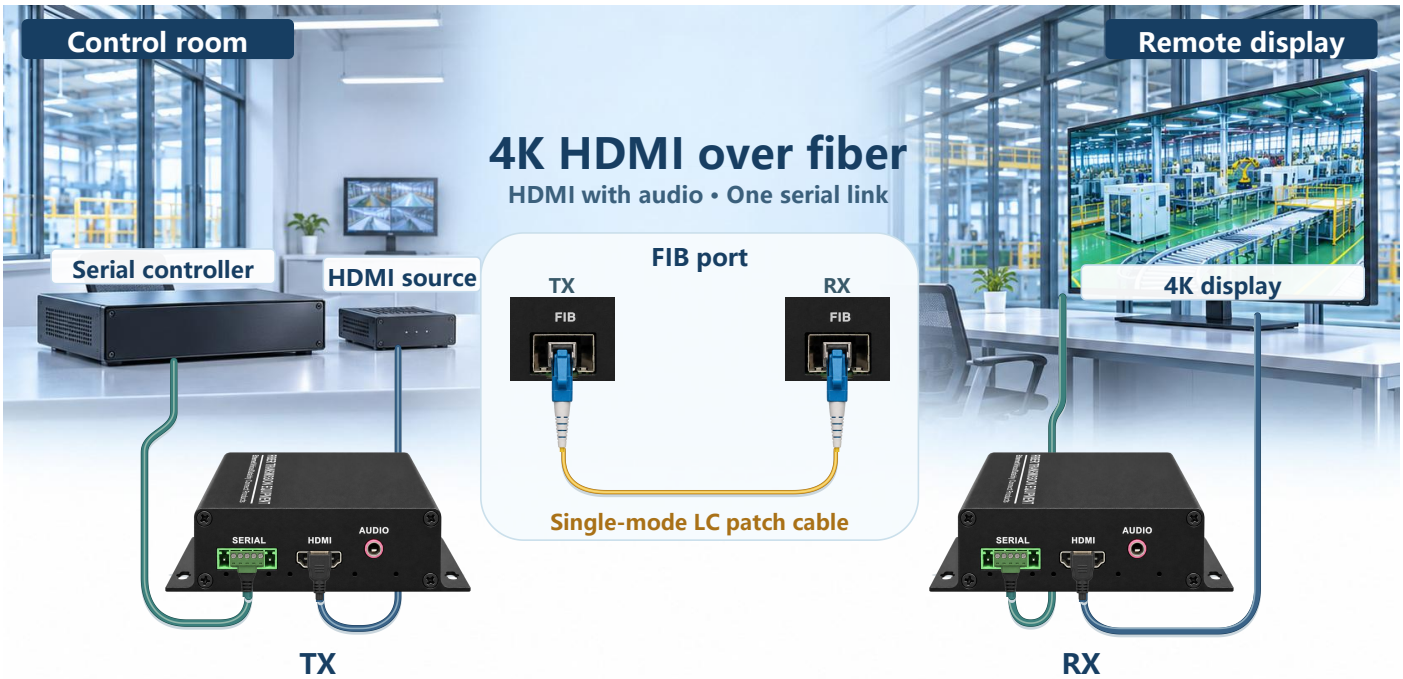
Overview

- Send one 4K60 HDMI signal with embedded audio over fiber to a remote display.
- Each end has one 3.5 mm audio jack and one serial port. D1 provides RS-485.
- Mount via the housing ears. Use 5 V DC at each end.

Features

- **4K video** 4K60 4:4:4. Up to 18 Gbps.
- **Audio** HDMI audio and a 3.5 mm jack.
- **Serial port** RS-232, RS-422 or RS-485.
- **Fiber link** Single-mode or multimode optics.

Remote Monitoring

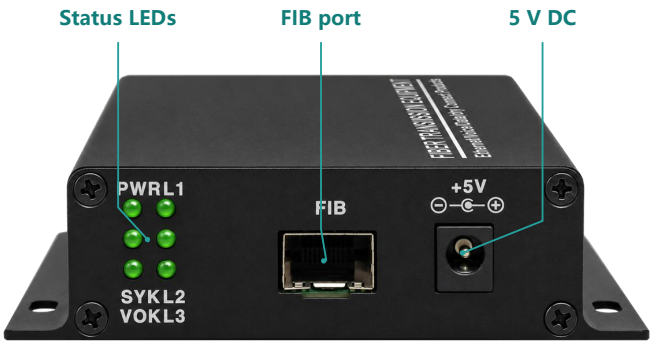


HDMI	Fiber	Serial
Video and embedded audio share HDMI.	Connect the TX and RX as a matched pair.	The diagram shows D1 RS-485.

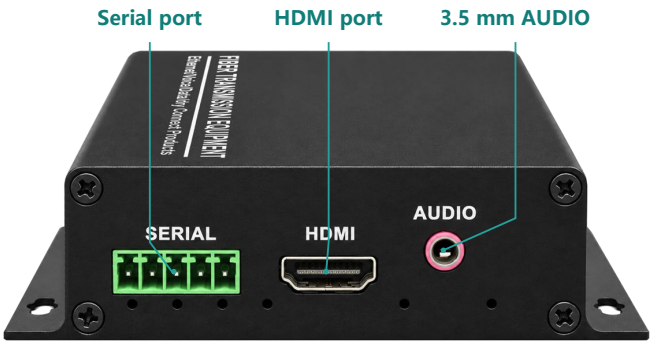
Video and embedded audio share the HDMI link. The serial port carries control traffic. Power each end with 5 V DC.

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Interfaces

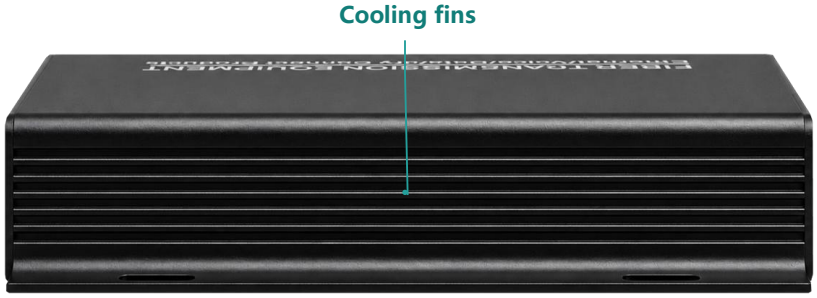


Fiber and power panel



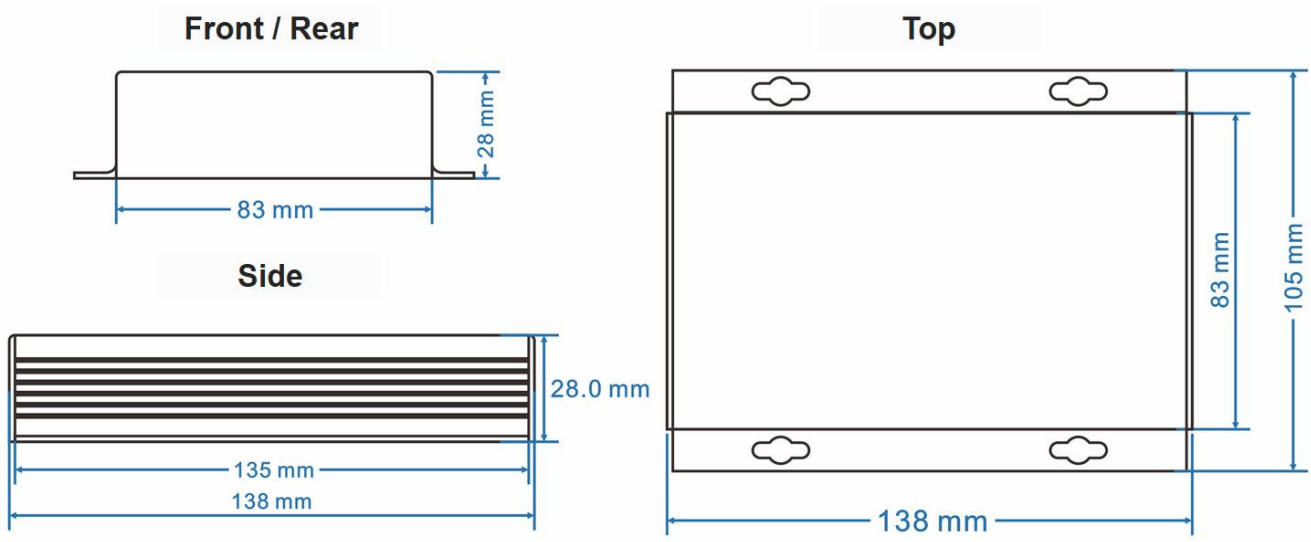
HDMI and serial panel

Connect the HDMI source to the transmitter and the display to the receiver. Wire the serial terminal for the ordered interface.



Place the unit on a desktop or attach it through the mounting ears. Leave clearance for connectors and cable bends.

Dimensions



Body: 138 × 83 × 28 mm (L × W × H). Width with mounting ears: 105 mm. Approx. 0.15 kg per unit.

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Specs

Item	Specification
HDMI video port	One HDMI-A receptacle per end. TX: input. RX: output. HDMI 2.0, compatible with HDMI 1.4.
Video formats	Up to 4096 × 2160 at 60 Hz, including 3840 × 2160 at 60 Hz. YCbCr 4:4:4 / 4:2:2 / 4:2:0. Up to 18 Gbps and 600 MHz pixel clock.
EDID and protection	EDID return, HDCP 1.4 / 2.2 and compatible 3D formats. Built-in HDMI ESD protection.
Embedded audio	One embedded HDMI audio channel. The source and display negotiate LPCM or compressed audio formats.
Analog audio	One 3.5 mm AUDIO connection. Confirm input or output and wiring for each unit on the order.
Serial interface	One removable five-position terminal. Select D1 RS-485, R1 RS-232 or X1 RS-422.
Serial signals	D1 RS-485: A/B for two wires or TXD±/RXD± for four wires. R1 RS-232: TXD/RXD/GND. X1 RS-422: TXD±/RXD±. Follow the supplied unit markings.
Optical interface	One FIB slot per end for an LC SFP. Choose single-fiber or dual-fiber optics.
Optical options	Typical: multimode 300 m (850/1310 nm), single-mode 10–80 km (1310/1550 nm). Check module specifications and installed link budget.
Power and status	5 V DC center-positive barrel jack. Power each end separately. See the front-panel indicator legends.
Enclosure / environment	Anodized aluminum. Operating and storage: −40 to +85 °C. 0–95% RH, non-condensing. MTBF >100,000 h.

Common Video Formats

Format	Supported modes
4K	3840 × 2160 at 30/60 Hz. Up to 4096 × 2160 at 60 Hz.
HD / Full HD	1280 × 720p50/p60, 1920 × 1080p24/p25/p30/p50/p60 and 1920 × 1080i50/i60.
Computer resolutions	60 Hz: 800 × 600, 1024 × 768, 1280 × 800, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1200.

Resolution, chroma and audio formats depend on the source, display and HDMI cables.

Ordering

Model code: FCP-1530- | VJ1 | AA1 | D1 / R1 / X1

No.	Code	Definition
1	FCP-1530	Product series.
2	VJ1	One 4K60 HDMI channel with embedded audio.
3	AA1	One 3.5 mm analog audio interface.
4	D1	One RS-485 port.
5	R1	One RS-232 port.
6	X1	One RS-422 port.

Full model	Configuration
FCP-1530-VJ1AA1D1	4K60 HDMI + 3.5 mm analog audio + RS-485.
FCP-1530-VJ1AA1R1	4K60 HDMI + 3.5 mm analog audio + RS-232.
FCP-1530-VJ1AA1X1	4K60 HDMI + 3.5 mm analog audio + RS-422.

Match TX and RX serial ports. Specify quantities, fiber type and count, wavelength and reach.

Specify adapters, SFPs, HDMI cables and fiber patch cables on the order.

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