

J I - E X 6 2 - H 2

18G HDMI V2.0 EXTENDER SET OVER CAT5E/CAT6

Cost-effective point-to-point HDMI 2.0 + IR extension with 4K60 4:4:4, HDR10 and long-distance CATx transmission.

4K60 4:4:4	HDR10	18 Gbps	HDCP 2.2	70 m	12V PoC
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01 OVERVIEW

The Jistron JI-EX62-H2 is a cost-effective HDMI V2.0 point-to-point extender set for HDMI and IR signals. It supports video up to 4K@60Hz 4:4:4, HDR10, 18Gbps bandwidth and HDCP 2.2, with long-distance transmission over a single CAT5e/CAT6 cable. The transmitter provides a local HDMI loop output, while the receiver supports automatic 4K-to-1080p downscaling for compatibility with legacy 1080p displays.

02 KEY FEATURES

- 4K60 HDR video

Supports HDMI 2.0 up to 4K@60Hz 4:4:4 with HDR10 and 18Gbps bandwidth.
- Long-distance CATx extension

Extends 4K@60Hz 4:4:4 signals up to 70m over a single CAT5e/CAT6 cable.
- HDMI loop output

Transmitter includes a local HDMI DISPLAY output for a nearby display.
- Bi-directional IR

IR input and output ports provide remote-control pass-through in both directions.
- Automatic downscaling

Receiver can automatically downscale compatible 4K input to 1080p for legacy displays.
- Smart EDID management

EDID bypass, local copy and default modes simplify source/display compatibility.
- Visually lossless transport

Source specifies visually lossless compression with no latency for extender transmission.
- 12V PoC receiver power

Transmitter CATx OUT supports 12V PoC to power the receiver through the link cable.

03 VIDEO & EXTENSION CAPABILITIES

HDMI 2.0	HDCP 2.2	4K60 4:4:4	HDR10	18 GBPS	70 M CATx
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04 SIGNAL MANAGEMENT & CONTROL

1 18Gbps HDMI transport HDMI V2.0 signal path supports data rates up to 18Gbps.	2 4K60 4:4:4 / HDR10 Supports video resolution up to 4K@60Hz 4:4:4 with HDR10.
3 CAT5e / CAT6 extension Point-to-point HDMI transport uses a single CAT5e/CAT6 link cable.	4 HDMI local loop-out Transmitter DISPLAY port feeds a local HDMI monitor alongside the remote display.
5 Bi-directional IR control 3.5mm IR IN and IR OUT ports provide control pass-through between locations.	6 Receiver downscaling Compatible 4K input can be automatically downscaled to 1080p on the receiver.
7 EDID management EDID bypass, local copy and factory-default behavior support mixed-display systems.	8 12V PoC link power CATx OUT supports 12V PoC so the receiver can be powered from the transmitter.

05 LINK & SYSTEM CAPABILITIES

SIGNAL PATH	
Transmitter input	1 x HDMI SOURCE
Transmitter outputs	1 x HDMI DISPLAY, 1 x CATx OUT
Receiver input	1 x CATx IN
Receiver output	1 x HDMI DISPLAY
IR control	Bi-directional IR via 3.5mm mini jacks
EDID	Smart EDID management
Compression / latency	Visually lossless compression; source specifies no latency

06 TECHNICAL SPECIFICATIONS

TRANSMITTER	
Input	1 x SOURCE HDMI
Input connector	1 x 19-pin Type-A female HDMI
Outputs	1 x DISPLAY HDMI, 1 x CATx OUT
Output connectors	1 x 19-pin Type-A female HDMI, 1 x RJ45
Control	1 x IR IN, 1 x IR OUT
Control connectors	2 x 3.5mm mini jacks

RECEIVER	
Input	1 x CATx IN
Input connector	1 x RJ45
Output	1 x DISPLAY HDMI
Output connector	1 x 19-pin Type-A female HDMI
Control	1 x IR IN, 1 x IR OUT
Control connectors	2 x 3.5mm mini jacks

VIDEO & AUDIO	
Video resolution	Up to 4K@60Hz 4:4:4, HDR10
HDMI audio formats	LPCM 2ch / 5.1ch / 7.1ch; Dolby Digital 2ch / 5.1ch; DTS 2ch / 5.1ch; DTS 96/24 5.1ch
HDMI version	HDMI V2.0
HDCP version	HDCP 2.2 compliant; output HDCP follows connected display capability
HBR audio	Not supported

06 TECHNICAL SPECIFICATIONS - CONTINUED

GENERAL	
Transmission distance	4K / 1080p <= 70m (230ft) per technical specification table
Cable note	CATx cable length should not be less than 15m for best video output
EDID	EDID management
Power supply	Input: 100-240VAC, 50/60Hz; Output: 12VDC 1A
Power consumption	4W maximum
Operating temperature	-5°C to +55°C
Storage temperature	-25°C to +70°C
Relative humidity	10% - 90%
Dimensions (W x H x D)	80 x 16.8 x 80 mm
Net weight	Tx / Rx: 70 g

07 ORDERING INFORMATION

MODEL	DESCRIPTION	KEY CAPABILITIES
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JI-EX62-H2	18G HDMI V2.0 extender set over CAT5e/CAT6 with IR, HDMI loop-out, downscaling and PoC.	4K60 · HDR10 · 18Gbps · 70m · IR · PoC
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Specifications are derived from the JI-EX62-H2 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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