



4K60Hz 18Gbps HDMI Extender over Cat5e/6 — 50M

4K@60Hz | 18Gbps | HDMI Loop-Out | HDR | RS-232 | Bi-directional IR | 3-Year Warranty

MPN: EXT-50M18G

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Important: Use Cat6/6a STP (shielded twisted pair) with proper grounding for best transmission results. Do not bundle Cat cables with power cables.

Product Overview

The KanexPro **EXT-50M18G** is an ultra-slim 4K@60Hz 18Gbps HDMI extender that transmits UHD 4K video with HDR and 4:4:4 chroma over a single Cat5e/6 cable to 50M (164 ft.). The transmitter unit features an HDMI loop-out for a local confidence monitor, and supports RS-232 and bi-directional IR pass-through for full remote control from both ends of the extension.

Key Features

- ❑ Ultra-slim 4K@60Hz 18Gbps HDMI extender over Cat5e/6 to 50M (164 ft.)
- ❑ HDMI loop-out on TX for local display or confidence monitoring
- ❑ HDR (High Dynamic Range) and 4:4:4 chroma color sampling
- ❑ Bi-directional IR and RS-232 control pass-through
- ❑ Dolby TrueHD and DTS Master Audio support
- ❑ HDCP 2.2 and EDID compliant
- ❑ Zero configuration plug-and-play
- ❑ Ultra-slim form factor: 61×88×18mm (TX & RX)
- ❑ 3-year KanexPro warranty



Specifications

Specification	Value
Signal	HDMI 2.0 HDCP 2.2
Bandwidth	18Gbps
Max Resolution	4K×2K @ 60Hz (4:2:0) HDR 4:4:4
HDMI Loop-Out	Yes — TX unit (local display)
Transmission Cable	Single Cat5e / Cat6
Transmission Mode	Non-ethernet based protocol
Max Distance	50M (164 ft.) at 4K@60Hz
Control	Bi-directional IR + RS-232 pass-through
Audio	Dolby TrueHD DTS Master Audio
Power Supply	DC 12V/1A (included)
Dimensions	61 × 88 × 18mm (TX & RX)
Weight	TX 160g RX 155g
Operating Temp	-10°C to 55°C
Storage Temp	-25°C to 70°C
Warranty	3-year parts and labor

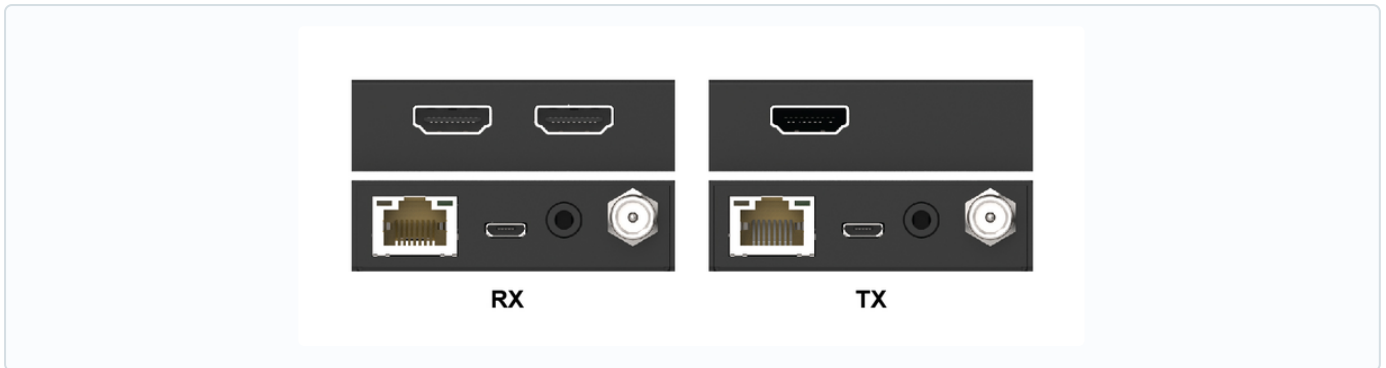
Package Contents

1× TX Unit | 1× RX Unit | 2× DC 12V/1A Power Adapters | 1× User Guide

Safety Notes: Do not expose units to moisture. Ensure adequate ventilation around TX and RX units. Use only the included power adapters. Do not exceed the maximum cable distance.



Panel Descriptions



TRANSMITTER (TX) PANEL

NO.	NAME	DESCRIPTION
1	HDMI IN	HDMI 2.0 Type A input. Connect to source device.
2	HDMI OUT (Loop)	HDMI loop-out for local confidence monitor or secondary display.
3	RJ45 OUT	Cat5e/6 output to receiver — up to 50M.
4	RS-232	DB9 serial control pass-through.
5	IR IN/OUT	3.5mm IR pass-through jacks.
6	DC IN	DC 12V/1A power input.

RECEIVER (RX) PANEL

NO.	NAME	DESCRIPTION
1	RJ45 IN	Cat5e/6 input from transmitter.
2	HDMI OUT	HDMI 2.0 Type A output to remote display.
3	RS-232	DB9 serial control pass-through.
4	IR IN/OUT	3.5mm IR pass-through jacks.
5	DC IN	DC 12V/1A power input.

Application Example

How it works: Connect the HDMI source to TX HDMI IN. The TX HDMI loop-out can drive a local confidence monitor simultaneously. Run a single Cat5e/6 cable to the RX — up to 50M. Connect the remote display to RX HDMI OUT. RS-232 and IR pass-through allow control of source and display equipment from either end.

Note: Use STP Cat5e/6 with proper grounding for best signal integrity at 4K@60Hz over maximum distances.

Troubleshooting

Q: 4K signal degraded at maximum distance

A: Ensure STP (shielded twisted pair) Cat5e/6 is used. Avoid running cable parallel to power lines. Check cable connectors for damage. Try reducing cable length.

Q: HDMI loop-out not working

A: The loop-out operates independently of the RJ45 output. Confirm HDMI cable from TX loop-out to local monitor is a Premium High Speed cable. Power-cycle TX.

Q: RS-232 control not passing through

A: Verify RS-232 cable pinout matches the connected control system. The DB9 connector passes RS-232 signals bidirectionally between TX and RX.



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