

# FLEX Series 4K60 HDBaseT CAT Receiver

PoC-Powered 4K60 4:4:4 Receiver for Modular FLEX Matrix Switcher Systems



**Eliminates power runs to every display endpoint in your FLEX matrix installation.** The KanexPro FLEX-CATRX is a Power-over-Cable HDBaseT receiver that extends 4K60 4:4:4 video up to 165 feet (50m) over a single CAT cable — with no external power supply required at the display side. Designed as the companion receiver for the FLEX-CAT12OUT output card, it delivers full 18Gbps HDMI 2.0 signal quality to remote displays throughout bars, restaurants, and hospitality venues.

Supporting HDCP 2.2, HDR, and 10/12-bit deep color, the FLEX-CATRX maintains signal integrity across the full FLEX chassis family — from the 8×10 up to the 24×60 configuration. Each FLEX-CAT12OUT card drives up to 12 receivers, and the chassis accepts up to 5 output cards, scaling the system to 60 endpoints without additional power infrastructure at the display side. 1080p content extends to 197 feet (60m), covering even large venue floor plans.

**Surge Protection Recommended** — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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## 1. FEATURES

- ✓ Extends 4K60 4:4:4 video up to 165 feet (50m) over CAT cable from FLEX matrix chassis
- ✓ Power over Cable (PoC) — receiver requires no external power supply
- ✓ HDMI 2.0 with 18Gbps bandwidth and HDCP 2.2 content protection
- ✓ HDR pass-through with 8, 10, and 12-bit deep color support
- ✓ 1080p signal extension up to 197 feet (60m) for longer cable runs
- ✓ Compatible with all FLEX chassis models: FLEX-MF8X10, MF16X20, MF24X36, MF24X60
- ✓ 12 receivers per FLEX-CAT12OUT output card, up to 5 cards per chassis (60 endpoints max)
- ✓ RGB and YCbCr 4:4:4/4:2:2/4:2:0 chroma sampling for full color fidelity

## 2. PACKAGE CONTENTS

1× FLEX-CATRX HDBaseT Receiver



### 3. SPECIFICATIONS

TECHNICAL	
<b>HDMI</b>	2.0, 18 Gbps
<b>HDCP</b>	1.x / 2.2
<b>HDR</b>	Supported
<b>Maximum Data Rate</b>	18 Gbps
<b>Video Resolution</b>	Up to 3840×2160 60Hz 4:4:4 (8-bit)
<b>Chroma Sampling</b>	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
<b>Color Bit Depth</b>	8, 10, 12 bits per color

CONNECTION	
<b>Input</b>	1× RJ45 (HDBaseT from FLEX-CAT12OUT)
<b>Output</b>	1× HDMI Type A [19-pin female]
<b>Output Distance (4K60)</b>	Up to 165 ft (50m) over CAT cable
<b>Output Distance (1080p)</b>	Up to 197 ft (60m) over CAT cable
<b>Power</b>	Power over Cable (PoC) — no external PSU required

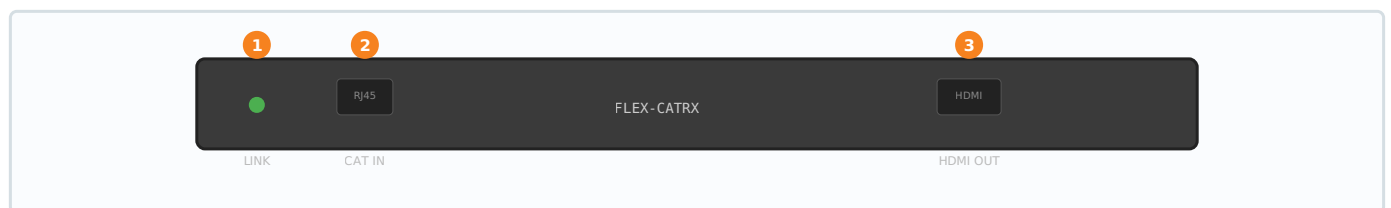
  

COMPATIBILITY	
<b>FLEX-MF8X10</b>	8 ports (1 card) / 12 max
<b>FLEX-MF16X20</b>	16 ports (2 cards) / 24 max
<b>FLEX-MF24X36</b>	24 ports (2 cards) / 36 max
<b>FLEX-MF24X60</b>	24 ports (2 cards) / 60 max

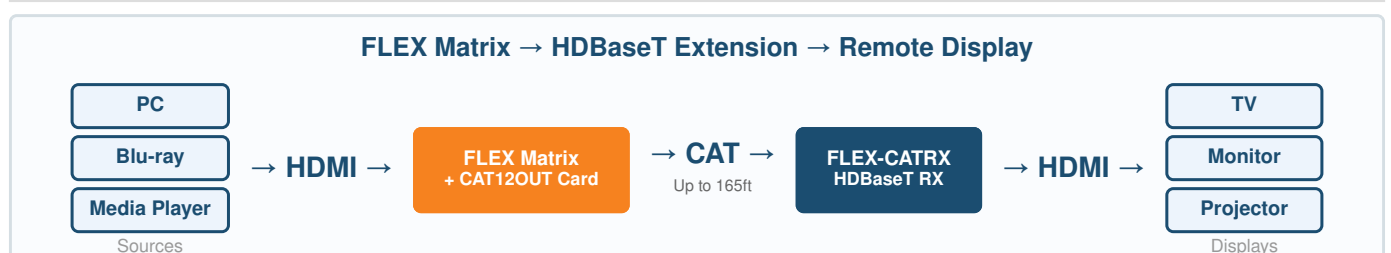
PACKAGE CONTENTS	
<b>1×</b>	FLEX-CATRX HDBaseT Receiver

### 4. PANEL DESCRIPTION



No.	Name	Function Description
1	<b>Link LED</b>	Green when a valid HDBaseT link is established with the FLEX-CAT12OUT output card.
2	<b>CAT IN (RJ45)</b>	HDBaseT input. Connect to a FLEX-CAT12OUT output card port using CAT5e/6/6a cable (shielded recommended). Receives video, audio, and PoC power over a single cable.
3	<b>HDMI OUT</b>	HDMI 2.0 output. Connect to the display device (TV, monitor, or projector). Delivers 4K60 4:4:4 video with HDR and HDCP 2.2.

### 5. APPLICATION EXAMPLE



**How it works:** HDMI sources connect to the FLEX modular matrix chassis via HDMI input cards. The FLEX-CAT12OUT output card converts each output to HDBaseT and sends 4K60 4:4:4 video over a single CAT cable up to 165 feet. The FLEX-CATRX receiver at the display end converts HDBaseT back to HDMI — powered entirely over the CAT cable with no external power supply needed.

**Scale:** Each FLEX-CAT12OUT card drives up to 12 FLEX-CATRX receivers. The chassis supports up to 5 output cards for a maximum of 60 endpoints.

## 6. TROUBLESHOOTING

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### **Q: No video on the connected display?**

**A:** Verify the CAT cable is securely connected to both the FLEX-CAT12OUT port and the FLEX-CATRX receiver. Use CAT5e or better (shielded recommended). Confirm the FLEX matrix output is routed to the correct port. Check that the Link LED on the receiver is green.

### **Q: Video is unstable or drops at 4K60?**

**A:** Ensure cable length does not exceed 165 feet (50m) for 4K60. Use shielded CAT6/6a cable for best performance. If the run exceeds 165 feet, the signal will auto-negotiate to 1080p (supported up to 197 feet). Avoid running CAT cable parallel to power lines.

### **Q: Link LED is not green?**

**A:** The Link LED indicates a valid HDBaseT connection with the FLEX-CAT12OUT card. If the LED is off, check that the output card is properly seated in the chassis, the matrix is powered on, and the CAT cable is undamaged. Try a different cable or port to isolate the issue.

