

4K60 HDMI 2.0 Output Card for Flex Matrix Pro

4-Port Hot-Swappable HDMI Output with Scaling, Dante/AES67, HDCP 2.2 & TAA Compliance

Add four HDMI 2.0 display outputs to any Flex Matrix Pro chassis with a single hot-swappable card. The FLEX-PROHDMI-OUT slides into any output slot across the Pro 16×16, 32×32, 64×64, and 128×128 frames, delivering 4K/UHD 60Hz 4:4:4 at 18Gbps with HDCP 2.2, HDR, independent scaling, and Dante/AES67 audio support per port.

Hot-Swap Procedure — The card may be inserted or removed while the chassis is powered on. Ensure the card is fully seated in the slot before routing signals. Other channels remain active during card swap.

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FEATURES

- ✓ 4× HDMI 2.0 Type A outputs per card — hot-swappable across all Flex Matrix Pro chassis
- ✓ 4K/UHD 60Hz 4:4:4 at 18Gbps with HDCP 2.2 and HDR support
- ✓ 8-channel LPCM High-Resolution Audio with Dante/AES67 network audio support
- ✓ Independent scaling per output with seamless switching
- ✓ Automatic cable compensation and signal reclocking
- ✓ EDID and HDCP management
- ✓ HDMI-to-DVI interface format correction
- ✓ +5VDC 250mA power on each HDMI port for external peripheral devices
- ✓ Hot plug and auto detect
- ✓ Dante Controller and Dante Domain Manager compatible
- ✓ TAA compliant



Specifications

VIDEO	
Ports	4× HDMI Type A (19-pin female) outputs
Standard	HDMI 2.0, HDCP 2.2
Resolution	Up to 4K/60Hz 4:4:4 (4096×2160)
Bandwidth	18Gbps per port
HDR	Supported
Scaling	Independent per output
Switching	Seamless (glitch-free)
AUDIO	
Formats	8-channel LPCM High-Resolution Audio
Network Audio	Dante/AES67 (requires FLEX-MCU-Dante in chassis)
SIGNAL PROCESSING	
Cable Compensation	Automatic
Signal Reclocking	Automatic
EDID Management	Supported
HDCP Management	Supported
Format Correction	HDMI-to-DVI
Port Power	+5VDC 250mA per HDMI port
GENERAL	
Form Factor	Hot-swappable slide-in card
Compatibility	FLEX-PRO16X16, FLEX-PRO32X32, FLEX-PRO64X64, FLEX-PRO128X128
Detection	Hot plug • Auto detect
Compliance	TAA Compliant

COMPATIBLE FLEX MATRIX PRO CHASSIS

FLEX-PRO16X16	4 output slots × 4 ports = up to 16 HDMI outputs
FLEX-PRO32X32	8 output slots × 4 ports = up to 32 HDMI outputs
FLEX-PRO64X64	16 output slots × 4 ports = up to 64 HDMI outputs
FLEX-PRO128X128	32 output slots × 4 ports = up to 128 HDMI outputs



Installation

CARD INSTALLATION

1. Locate an available output card slot on the rear panel of the Flex Matrix Pro chassis.
2. Align the FLEX-PROHDMI-OUT card with the slot guide rails.
3. Slide the card firmly into the slot until it seats completely and the retention mechanism engages.
4. The chassis will automatically detect the card. Verify detection via the 7" touch panel or Web GUI under System Info.
5. Connect HDMI display devices to the four ports on the card.

CARD REMOVAL (HOT-SWAP)

1. Disengage the retention mechanism.
2. Slide the card out of the slot. Other channels remain active during removal.
3. Insert a replacement card if needed.

TROUBLESHOOTING

Q: Card not detected after insertion?

A: Ensure the card is fully seated. Check the chassis System Info page. Try removing and reinserting the card. If the issue persists, test the card in a different slot.

Q: No video on a connected display?

A: Verify the source routed to this output is active. Check the HDMI cable connection. Try a different HDMI port on the card. Verify EDID settings match the display native resolution.

Q: Audio not passing through?

A: Confirm the source is outputting embedded HDMI audio. For Dante/AES67 audio, verify the FLEX-MCU-Dante card is installed and configured in Dante Controller.

WARRANTY

KanexPro products purchased from an Authorized Reseller are covered by a **3-Year Limited Warranty**. Visit [kanexpro.com/warranty](https://www.kanexpro.com/warranty) for details.

