

16X20 Modular Matrix Switcher

4K@60Hz

Full 4K/UHD at 18Gbps, Video-Wall, Quad-view,
independent scaling

MPN: FLEX-MF16X20

The **KanexPro FLEX-MF16X20** is a modular matrix switcher designed to manage multiple video Inputs and outputs, commonly used in professional AV setups.

It allows for flexible video distribution with 4K/UHD resolution at 60Hz. This specific model supports **up to 16 HDMI inputs** and **20 HDMI outputs**, all in **4K 60Hz**, making it ideal for high-quality video distribution in a variety of environments like bars, restaurants, digital signage, and live event streaming.

Industry Standard HDCP 2.2 & 4K/60

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios.

Applications:

- Corporate and Conference Room AV Systems
- Educational Institutions and Lecture Halls
- Broadcasting and Production Studios
- Security and Surveillance Command Centers
- Live Events and Venues
- Residential Home Theater Systems
- Retail and Digital Signage
- Hotels and Hospitality
- Healthcare and Medical Facilities



Key Benefits of Using 16X20 Modular Matrix Switcher:

- Flexible Input/Output Routing
- Seamless Switching
- Support 4K UHD Resolution
- Enhanced Audio Management
- Scalability and Modularity
- Compact Design and Space-Saving
- Reliable Performance
- Low Latency for Real-Time Applications

FEATURES

- Up to 16 inputs of 4K/UHD HDMI video (2 card slot)
- Up to 20 outputs of 4K/UHD HDMI video (2 card slot)
- HDMI 2.0, 18Gbps and HDCP 2.2 support
- Low cost single CAT cable to each display
- Selectable independent scaling on all outputs
- Video wall up to 12 displays (1x12, 2x6, 3x4, 4x3, 6x2, 12x1)
- Multi view (Quad view)
- CEC display control
- Audio extraction on all inputs
- 7" front panel touch control
- Hot-swappable design allows easy replacement of slots and FAN modules
- RS-232, TCP/IP, Web UI control functions

SPECIFICATIONS

TECHNICAL	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 3840x2160 60Hz 4:4:4 (8bit)
Color Space	RGB and YCbCr 4:4:4, YCbCr 4:2:2/4:2:0
Color Depth	8, 10, 12 bits per Color
Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby True HD, Dolby Digital Plus (DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
HDR	Supports
Video Wall	Up to 12 Display
Multi View	Quad View
Audio Extraction	All Inputs

Mechanical	
Housing	Metal Enclosure
Color	Black
Power supply	Input:AC100-240V50/60Hz, 800 W
MTBF	50,000 hrs
Temperature & Humidity	0-40°C, Humidity below 80%

Connection	
Input	2 Card Slot [Input Card Option:FLEX-HDMI8IN]
Output	2 Card Slot [Output Card Option: FLEX-HDMI2OUT, Option 2: FLEX-CAT2OUT + FLEX-CATRX]
Control ports	1 x RS-232 [DB9 Connector] 1 x RJ 45 1x Service Point

APPLICATION DIAGRAM

