



**GT-matrix-16K**  
**16×16 8K Versatile Modular Switcher**

The GT-Matrix-16K is a high-performance 16×16 modular switcher designed for flexible switching and distribution of multi-format 8K audio-visual signals. Featuring a CTRL central control card with secure LAN connectivity for remote management, it includes eight card slots for the installation of modular matrix cards, supporting dual or quad-port configurations for both input and output signals.

**Feature:-**

- **High-Performance 8K Matrix Switching**-The GT-Matrix-16K is a versatile 16×16 modular matrix designed for seamless switching of multi-format AV signals, supporting future upgrades to 8K capabilities.
- **Multi-Format Compatibility** - Equipped with modular matrix cards that handle high-resolution 4K60 4:4:4 signals, ensuring flexible input and output options.
- **Advanced Signal Management** - Features intelligent EDID processing for plug- and-play operation, along with robust signal distribution technologies to maintain signal integrity over long distances.
- **Comprehensive Control Options** - Offers remote and local control via a user-friendly web interface, RS-232 service port, and front-panel controls for easy operation.
- **Efficient Maintenance** - Front-panel indicators and an LCD display facilitate easy troubleshooting, with local firmware upgrades via USB.
- **Compact Design** - A 3U 19" enclosure suitable for rack mounting, with PoE support for convenient powering of remote devices.
- **Flexible I/O Configuration** - Modular design allows for a customizable mix of input and output cards to match specific deployment needs.
- **Multi-Format Distribution** - Supports a variety of audio-visual signals including HDMI, VGA, and SDI, ensuring compatibility with standard infrastructure.
- **Independent Switching** - Non-blocking switching capabilities allow any input to connect to multiple outputs seamlessly.

Category	Specification
<b>Ports Control Card</b>	
1Gbp Ethernet	On an RJ-45 female connector for matrix LAN connection
100Mbps Ethernet	On an RJ-45 female connector for matrix service
RS-232	On a 3-pin terminal block for local service
RS-232 Baud Rate	9600/19200/38400/57600/115200 (default)
RS-232 Character Frame	8 bit / No parity / 1 Stop bit / ASCII
<b>Chassis</b>	
USB	Mini-USB connector for firmware upgrade

<b>Backplane Data Rate</b>	
AV	50Gbps
Ethernet	1Gbps
<b>Card Slots</b>	
Central Control	1
I/O	8
Modules	
Power	2
Fan	1
<b>Power Consumption</b>	100–240V AC, 50/60Hz, 2.2A (Max)
<b>Power Source</b>	100–240V AC, 50/60Hz

