

Specifications MA Network Switch

The MA Network Switch is the perfect device for a full lighting control solution. The combination of console, switch and networking devices provides the easiest solution even for complex lighting systems.

Designed to simplify the set-up and management of today's lighting networks, the MA Network Switch is backed by the industry leading MA technical support team. Standard lighting terminology is used allowing most common lighting protocols to be filtered via a web interface designed specifically for lighting technicians. The tiered interface also allows advanced functionality for experienced network engineers. The MA Network Switch provides a local display for port status, applied filters and recognized MA equipment. Additionally, it shows workload status of the switch and every single port for easier fault finding.

The MA network switch is compliant with IEEE 802.3ab Gigabit Ethernet and can be seamlessly integrated into existing Ethernet networking infrastructures. The ability to define port filtering with the common entertainment protocols combined with standard Ethernet protocols like IGMP and RSTP allow the switch to perform best in fixed installation as well as in temporary installations.

The MA Network Switch is housed in a typically robust 1RU chassis, with color coded filter and data indicators front and rear. The front panel features a single etherCON port and display screen. The rear panel incorporates 8 etherCON ports and 2 SFP cages to suit mini-GBIC fiber connections. Additionally, the MA Network Switch can be fitted with 2 optional heavy duty fiber connections for extended cable runs!

USPs:

- Simplified network set-up via web-interface
- Designed for lighting technicians
- Protocol filtering with Presets
- Industry specific protocols for filtering
- Colored LEDs for Port Status displaying
- Color coded grouping for easy recognition
- Advanced level for experienced network engineers
- MA technical support
- Robust hardware
- Front and rear indicators
- 4 SFP-cages for fiber connection options
- Additional features for grandMA2 networks
- Compliant with IEEE 802.3ab Gigabit Ethernet – easy integration into existing Ethernet-infrastructure
- Low jitter for sound protocol compliance
- Workload status report

Technical Specifications

Connectivity

Network 9 x 10/100/1000 Mbps shielded Neutrik etherCON connectors 1 on the front, 8 at the rear
4 SFP cages (mini-GBIC)
2 at the rear, 2 inside the MA Network Switch

Power 1 x Neutrik powerCON In

Switch Features

RSTP yes

Groups (VLANs) yes (8)

Fan 2

Ethernet compliance IEEE 802.3
IEEE 802.3u
IEEE 802.3x Flow Control
IEEE 802.3ab Gigabit Ethernet

Supported Protocols MA-Net2, dot2-Net, MA-Net, sACN, Art-Net, Ki-Net, MSC, and many more
IEEE 802.1p CoS (Class of Service)
DiffServ (DSCP)
IEEE 1588 PTP V2

Sound Protocol Compliance Yes, Low jitter

Ethernet Switch Type Full non blocking wire-speed switching
performance

Memory 4Mb

MAC Address Table 8912 Entries

Address Learning / Aging Self learning, Auto aging

Switching throughput 32Gbps

IGMP support yes

IGMP Snooping yes

Port Features

Port Sensing	Auto negotiation
Auto Crossover	MDI / MDIX (allows straight or cross wired cables)
Auto Sensing	Full or Half Duplex (Gigabit is always Full Duplex)

Status Reports

Front End Display	yes
Ethernet Port Connection	Link (green LED), Group (Color LED)
Ethernet Port Speed	100/1000Mbps LED
Device	Status LED (green / red)
Power	Status LED (green / red)

Management

Configuration	Through web interface Through grandMA2 console (not yet implemented)
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Power Input

Power	100 – 240 VAC / 50 – 60 Hz
Power consumption	max. 100 VA

Environmental

Operating Temperature	0°C to +45°C / 32°F to 113°F
Storage Temperature	-10°C to +60°C / 14°F to 140°F
Humidity (non condensing)	20% to 80% relative humidity

Physical

Enclosure	Metal housing
Dimensions (WxDxH)	483 x 233 x 43mm / 19 x 9.17 x 1.69inch
Weight (without optical connector)	3,5kg / 7.7pounds

Approvals

CE, EN 55103-1, EN 55103-2, EN 60950-1, RoHS Compliance