

AXON core



Improving the safety
of your underground
environment

- > Enhanced power distribution and power management
- > Allows for future wireless and tracking technologies
- > 1Gbps network switch with full duplex fibre and PoE+ connectivity
- > Easy to install and maintain
- > Expandable and scalable modular design



AXON

core

MST's AXON core is designed to be the foundation of your digital underground ecosystem. It is one of the highest performing network platforms enabling simultaneous voice, video and data transmissions; and IoT and edge computing applications to operate in mission-critical real-time.

AXON core, is part of a new, modular network system that goes beyond the capabilities of a traditional network switch. It features high-bandwidth fibre and PoE+ connectivity, industry-leading power distribution and management as well as dual expansion sockets designed to house existing and future plug-and-play technology modules.

The modular design gives users the ability to create tailored system configurations for specific operational needs and ensures simplified future growth and scalability. The expansion modules currently offered are **AXON control**, designed to provide seamlessly integrated solutions for control and automation processes, and a subsidiary DC power module called **AXON power** with additional PoE+ ports.

The **AXON core** unit also has a dedicated area for mounting an **AXON air** Wi-Fi access point. This configuration transforms the platform into a powerful Wi-Fi distribution point, enabling VoIP and geolocation and tracking systems.

AXON core is also easy to maintain and support both remotely and locally with a removable configuration card greatly reducing the time and complexity associated with system upgrades and unit replacements.

SPECIFICATIONS

NETWORK CONNECTIVITY

- > 3 x 1Gbps full duplex optic Fibre + Power ports
- > 4 x 1Gbps PoE+ ports

NETWORK PROTOCOLS

- > VLAN (IEEE 802.1Q)
- > RSTP (802.1W)
- > STP (802.1D)
- > LLDP (802.1AB)
- > MST Device Discovery
- > SNMP (read only)
- > QoS (P802.1p)

POWER INPUT

- > 20–60 Volt DC

POWER OUTPUT

- > Composite fibre ports: input pass through
- > Twisted pair PoE+ ports: 802.1at, 54 VDC
- > Prioritised power distribution
- > Combined PoE+ power: 120W

ENVIRONMENTAL PARAMETERS

- > IP65 rated
- > Operating temperature: 0-50°C
- > Humidity: 95%

EXPANSIONS and CONFIGURATION

- > Two expansion slots for optional modules
- > Mounting pad for external wireless Access Point
- > Configuration with SD card
- > Remote configuration
- > Reset buttons
- > Multiple LED indicators

COMPLIANCE

- > EMC: CE, FCC, RCM
- > Safety: IEC 62368-1

DIMENSIONS (mm)

- > 507(h) x 360(w) x 146(d) without mounting bracket

WEIGHT

- > 4.5kg