

AXON air



Improving the safety
of your underground
environment

- > PoE+ enabled access point
- > Standalone or attachable to AXON core
- > Wi-Fi 802.11 a/b/g/n
- > Integrated geolocation capability
- > Can be daisy-chained via PoE interface





MST's AXON air is a versatile Wi-Fi access point designed with power and flexibility in mind. It can be daisy-chained via its PoE+ port and the combination of radio and antennas in one package makes installation simple and inexpensive.

AXON air features antenna diversity, 2x2 MIMO and integrated support for geolocation. Its advanced feature set enables reliable, high-bandwidth, wireless data and voice coverage throughout the mine or tunnel.

Designed to be easily deployed, **AXON air** can be mounted directly onto the **AXON core** unit or independently to a rock surface where its two communication ports allow individual access points to be daisy-chained. This eliminates the need for external switches or power supplies and means that Wi-Fi coverage can now be extended into those hard to get to places without the need for fibre – e.g. workshops, declines and the last mile – reducing the overall cost of the solution.

The versatility of **AXON air** continues with its ability to host high-gain antennas mounted directly to its enclosure that, with the assistance of an optional swivel mechanism, can be used to help create ad-hoc wireless meshes, working as a wired network gateway or a repeater node.

SPECIFICATIONS

WIRED NETWORK CONNECTIVITY

- > 2 x 1Gbps, PoE+ ports
- > Up to 3 units can be daisy-chained 100m apart

WIRELESS CONNECTIVITY

- > 1 x 802.11 a/b/g/n Wi-Fi radio
- > 2.4 or 5GHz
- > 6 x SSIDs
- > Meshing 802.11s (gateway or repeater node modes)
- > Max transmitter output at 2.4GHz: 20dBm, 5GHz:16dBm

NETWORK PROTOCOLS

- > VLAN (IEEE 802.1Q), QoS (P802.1p)
- > LLDP (802.1AB)
- > MST Device Discovery
- > SNMP (read only)
- > MST tracking protocol

WIRELESS SECURITY

- > WEP/WPA/WPA2

POWER REQUIREMENTS

- > PoE+ Class 4 power requirement, drawing 4W nominally

LED INDICATORS

- > Power, Tracking, PoE+ and Radio status LEDs

GEOLOCATION

- > Integrated Wi-Fi tag tracking capabilities
- > Supports MST and AeroScout tag tracking protocols

CONFIGURABILITY

- > Remote firmware upgrade
- > Remote configuration (Web page and file push)
- > Remote monitoring (SNMP)
- > Reset button

ENVIRONMENTAL PARAMETERS

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

COMPLIANCE

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

DIMENSIONS (mm) and WEIGHT

- > 242(h) x 135(w) x 115(d)
- > 1.3kg (without bracket)/1.8kg (with bracket)