## **AXON air** series 2



# Improving the safety and intelligence of your underground environment

- > PoE+ enabled access point
- > Standalone or attachable to an AXON Core
- > Wi-Fi 802.11 a/b/g/n
- > BLE / UWB precision tracking and safety
- > Integrated geolocation capability
- > Can be daisy-chained via PoE interface



## **AXON**

### air series 2

MST's AXON air Series 2 is a versatile Wi-Fi access point designed with power and flexibility in mind. BLE and UWB beaconing have now been added to the AXON air to create the AXON air Series 2. Like the AXON air, the AXON air Series 2 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 Series 2 features Wi-Fi antenna diversity and integrated support for geolocation. Its advanced feature set enables reliable, high-bandwidth, wireless data and voice coverage throughout the mine or tunnel. The **AXON** air Series 2 can act as a Bluetooth beacon, or detect BLE beacons in range. The **AXON** air Series 2 also detects and locates MST's RANGE wear and RANGE link UWB tags used by MST's geolocation software to locate these tags and their associated personnel and/or equipment in the mine or tunnel.

Designed to be easily deployed, the **AXON** air **Series 2** can be mounted directly onto an **AXON** core unit, or independently to a rock surface. The **AXON** air **Series 2** has two PoE+ ports that allows it to be daisy-chained eliminating the need for external switches or power supplies. This also enables Wi-Fi and BLE coverage to be extended into hard to get to places without the need for fibre – for example, workshops, declines and the last mile – reducing the overall cost of the solution.

The versatility of **AXON** air **Series 2** continues with its ability to mount high-gain Wi-Fi antennas 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 (IP65)
- > Up to 3 units can be daisy-chained 100m apart

#### **WIRELESS CONNECTIVITY**

- > 1 x 802.11 a/b/g/n Wi-Fi radio (2x2)
- > 2.4 or 5GHz
- > 6 x SSIDs
- > Meshing 802.11s
- > Transmit Power 20dBm (2.4GHz), 16dBm (5GHz)
- > WEP/WPA/WPA2

#### **NETWORK PROTOCOLS**

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

#### **POWER REQUIREMENTS**

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

#### **BLE RADIO**

- > BLE 5.3
- > Eddystone and iBeacon
- > TX power up to +3dBm
- > Range: 300m (BLEv5 Coded-Phy)

#### **UWB RADIO**

- > 802.15.4z security standard
- > Ch 5 (6.5 GHz) or Ch 9 (8 GHz)
- > Range: Up to 150m (450 ft)
- > Accuracy: 0.3m (1-2 feet)

#### **LED INDICATORS**

> Power, tracking, PoE+, WIFI, BLE, and UWB status LEDs

#### **CONFIGURABILITY**

- > Remote firmware upgrade
- Remote configuration 9Web page and file push)
- > 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**

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

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