

AXON

Mesh - portable wireless access point

Brand: MST

Model: AXON Mesh



Improving the safety
of your underground
environment

- Full wireless meshing
- Portable and light weight with multiple mounting options
- Dual hot-swap battery via unique Lachlan[®] wheel
- Flexible antenna arrangements
- Intrinsically safe



Images are indicative

AXON

mesh - portable wireless access point

MST Global's AXON mesh – portable wireless access point - is an industry leading intrinsically safe, mobile, self-meshing, network extender and access point. Intended for the adhoc extension of a mine or tunnel's existing Wi-Fi network, the AXON mesh is fit for purpose for VoIP, tracking and data transport. The AXON mesh is devised for short to medium term deployment in the dynamic areas of underground mining and tunnelling, including hazardous areas and development sections.

The **AXON mesh** is lightweight, small and portable. It is simple to deploy, delivering connectivity into areas of mines and tunnels where cabling is difficult or dangerous to install and maintain. **The AXON mesh** is designed to enable multiple nodes in a redundant mesh implementation, effectively filling communication black spots typically found between active mining faces and fixed infrastructure. This enables real-time data collection from personnel and equipment working in these areas, greatly enhancing the safety of underground personnel due to the tracking capabilities enabled by the **AXON mesh**.

Offering more than 120 hours of battery-powered operation, the intrinsically safe **AXON mesh** is considerate of the 24-hour reserve required for emergency communications in certain mining laws, such as the US MINER Act. This can be further extended by hot swapping batteries in depleted units to maintain the network and keep the mesh alive.

A turnkey solution, from instrument sampling through to data hand over, the **AXON mesh** is the perfect solution to extending the IP network of the modern mine or tunnel.

SPECIFICATIONS

WIRELESS CONNECTIVITY

- 1 x IEEE 802.11 b/g/n Wi-Fi radio
- Frequency range: 2400-2483,5 MHz
- Max. Output Power (EIRP): 16 dBm
- Up Link Modulations:
CCK, OFDM, BPSK, DQPSK
- 802.11s Meshing

NETWORK PROTOCOLS

- MST Device Discovery
- SNMP (for remote monitoring)
- TFTP (for central configuration management)
- MST Tracking Protocol
- AeroScout® compatible

POWER

- 2 x 96 Wh hot swappable Li-ion batteries
- Power input parameters: 7.4V, 150mA
- Typical operational time with fully charged batteries is more than 120 hours (dependent on the environment & the amount of data transmitted)
- Low power consumption

CONNECTIVITY

- 1 x N-Type male antenna connector
- 1 x 2dBi Omni-directional antenna
- Decipro antenna kit

STATUS INDICATORS

- Mesh/uplink quality, Wi-Fi access point, Power, Tracking Tag, Fault, Battery

ENVIRONMENTAL PARAMETERS

- IP67 rated
- Operating temperature:
 - Hard Rock: 0°C to 50°C
 - IECEx: 0°C to 40°C

DIMENSIONS (mm) and WEIGHT

- 233 x 310 x 92
- 3.45kg (complete with two batteries)

Manufacturer: MINE SITE TECHNOLOGIES PTY LIMITED
Add: Level 5, 113 Wicks Road North Ryde, NSW, 2113 – Australia
Phone: [+61 2 9491 6500](tel:+61294916500)
www.mstglobal.com