



Productivity and Safety through
Mine-Spec digital applications

IMPACT

wireless
access point



Wi-Fi wireless access point

Power over Ethernet (PoE)

Tag reading abilities

Rugged and reliable

Mine Site Technologies' (MST) IMPACT Wireless Access Point (WAP) has been specifically designed for ease of deployment in a mine environment. With a single Wi-Fi radio, housed in a rugged IP66 case, these units can be attached directly onto the walls or back/roof of a mine for both temporary and permanent extension of the wireless network. Its high bandwidth and low latency design enables multi-service applications to share the network infrastructure. This facilitates functionality such as VoIP, IP video streaming, remote PLC programming, mobile data acquisition, real-time vehicle diagnostics and asset/personnel tracking.

SPECIFICATIONS

WI-FI SPECIFICATIONS

- IEEE 802.11n backward compatible with 802.11 b/g
- 2x2 Radio up to 300 Mbps
- Multi SSID capable

Transmit Power

- +26 dBm (aggregate)

Receive Sensitivity

- 802.11b: 1 Mbps -94 dBm
11 Mbps -89 dBm
- 802.11g: 6 Mbps -95 dBm
54 Mbps -75 dBm
- 802.11n HT20: MCS0 -94 dBm
MCS7 -75 dBm
- 802.11n HT40: MCS0 -88 dBm
MCS7 -70 dBm

Wireless Security

- WEP (64/128 bit encryption)
- WPA
- WPA2

LAN SPECIFICATIONS

- IEEE 802.3 100BASE-TX & 10BASE-T
- IEEE 802.3u Auto-negotiation
- Automatic MDI/MDIX crossover
- IEEE 802.3af mode A (PoE) compliant powered device
- VLAN support

QoS Support:

- IEEE 802.1p tagged Frames

REMOTE MANAGEMENT

- Remote monitoring via SNMP
- NTP time synchronisation
- MAC Filter
- Web based device configuration
- Remote firmware upgrades via LAN
- MST device discovery protocol

CONNECTORS

LAN

- M12 Ethernet (4 way)

Wi-Fi

- RP-TNC connectors (diversity support)

I/O CAPABILITIES

- 10/100 wired Ethernet port
- 802.11b/g Wi-Fi radio port (with diversity antenna)

ENVIRONMENTAL

- Operating temperature: 0°C to 70°C
- Storage temperature: -20°C to 80°C
- Operating Humidity: 5% to 90% (Non-condensing)
- Input Voltage: 10V to 54Vdc (PoE)
10V to 27Vdc (local power input)
- IP66 Casing



MST offices and support centers are strategically located in the world's primary mining regions.

www.mstglobal.com
solutions@mstglobal.com

Australia

Sydney
Level 5, 113 Wicks Road
North Ryde
Sydney NSW 2113
Tel: +61 (0)2 9491 6500

United States

Denver
13301 W 43rd Drive
Golden, Denver
Colorado 80403
Tel: +1 303 951 0570

Chile

Santiago
Vitacura 2771, Of 503
Las Condes,
Santiago 7550134
Tel: +56 9 7772 3819

Russia

Moscow
Office 318a
Lesnaya, 43
Moscow 127055
Tel: +7 (499) 978 72 11

South Africa

Centurion
Unit 1, Oxford Office Park
3 Bauhinia St
Gauteng 0046
Tel: +27 (0) 12 345 6100

China

Hangzhou
Building 5
1413 Moganshan Road
Hangzhou 310011
Tel: +86 571 8580 3320 Ext 206