



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

MST Global's (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, realtime 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.

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