



# IMPACT

The FUTURE of mining communications

Wi-Fi Tag



Productivity and Safety through  
Mine-Spec digital applications

Self contained unit  
Long battery life  
IP65 and IS approved  
On board motion sensor

## Wi-Fi Tag Specifications

Mine Site Technologies' (MST) Wi-Fi Tags are a rugged, battery-powered tag that can be attached to personnel, assets, mobile equipment and vehicles or added in to our ICCL cap lamps for added protection against loss or damage. When used in conjunction with MST's Wireless Network Switches or Wireless Access Points it enables tagged items to be accurately located in real-time and in any mining environment from open pit to underground. Tag messages are received and processed by MST's Wi-Fi access points, keeping infrastructure costs low and installation simple., tag locations are determination by a unique beaconing method that keeps network impact low and ensures scalability and long battery life.

### PERFORMANCE

Up to 80m (260 feet)

### RADIO

- 802.11 compliant (2.4 GHz)
- Low frequency receiver for chokepoint detection (125kHz)
- Transmission power: up to +19dBm (~81mW)
- Patented clear channel sensing avoids interference with wireless networks

### PROGRAMMABILITY

- Transmission interval is configurable, 128 msec to 3.5 hours
- Channel programmable
- Wireless tag programming

### ENVIRONMENTAL

- Temperature: -30°C to +75°C (-22°F to +167°F)
- Humidity: 0 to 100%, condensing
- IP65 rated: the housing is water and dust resistant and includes a rubber lining

### ELECTRICAL

- 3.6V Lithium ½ AA battery (replaceable)
- Battery life: up to 4 years (dependent on usage scenario and other factors)
- 3.75 years (transmission every 5 minutes)
- 3 years (transmission every 1 minute)
- 2.33 years (transmission every 30 seconds)

### CERTIFICATIONS

- Radio: FCC Part 15, sub-part C class B, sub-part B EN 300-328, EN 300-330, EN 301-489, RSS 210 (Canada) ARIB STD-T66 (Japan), ARIB STD-33 (Japan), MIC (Korea)
- Safety: CE, cTUVus (EN60950)

### INTRINSICALLY SAFE CERTIFICATIONS

- ATEX certified - gas group IIB
- ATEX certified - gas group IIC
- ATEX certified - mining group I
- FM certified – class I, II, III
- MSHA certified

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MST offices also located in Sudbury, Canada and Denver, Pittsburg, Elko and Washington USA

Mine Site Technologies Pty Limited reserves the right to make changes to the specifications and information contained in this brochure at any time and without notice. MST-TAG0611-AU

