



IMPACT

The FUTURE of mining communications

Wireless Network Switch



Productivity and Safety through
Mine-Spec digital applications

- Remote monitoring and equipment control
- Handheld and portable device data transfer
- IP Telephony
- Remote video from fixed and mobile equipment

Wireless Network Switch Specifications

Mine Site Technologies' ImPact Wireless Network Switch is the heart of a scalable, high-speed, data and communications system for both underground and surface operations. Designed to cope with time-sensitive, high-bandwidth applications and enabling functionality such as VoIP, IP video streaming, remote PLC programming, mobile data acquisition, real-time vehicle diagnostics and asset / personnel tracking. The ImPact Wireless Network Switch provides a quantum leap forward from traditional technologies by delivering improvements in reliability, bandwidth, data quality, system capacity and support for open standards. It also elegantly addresses the challenge of power distribution in an underground environment.

<p>Fibre Ports:</p> <ul style="list-style-type: none"> ▪ 4 x Small Form-factor Pluggable (SFP) 802.3 compliant ports. Single or Multimode up to 1 Gigabit per second, . ▪ One 802.3 compliant port available with fibre and copper support. 	<p>Int. Ethernet Ports:</p> <p>Each port has:</p> <ul style="list-style-type: none"> ▪ 4 x 802.3 10BASE-T/ 100BASE-TX RJ45 ports. Auto MDI/ MDIX. IEEE 802.3u compliant with Auto-Negotiation.
<p>Wireless Radio Ports:</p> <ul style="list-style-type: none"> ▪ 2 x IEEE 802.11 b/g wireless access points. ▪ Support for 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps modes <p>Wireless Modulation:</p> <ul style="list-style-type: none"> ▪ CCK (802.11b) ▪ DSSS/OFDM (802.11g) <p>Transmit Power:</p> <ul style="list-style-type: none"> ▪ Max +19dBm <p>Receive Sensitivity:</p> <ul style="list-style-type: none"> ▪ 802.11b:- 1 Mbps: -94dBm 11 Mbps: -87dBm ▪ 802.11g:- 6 Mbps: -87dBm 54 Mbps: -70dBm <p>Wireless Security</p> <ul style="list-style-type: none"> ▪ WEP (64/128 bit encryption) ▪ WPA ▪ WPA2 	<p>Switch Processor:</p> <ul style="list-style-type: none"> ▪ Wire speed switching. ▪ Quality of Service (QoS) support with four traffic classes. ▪ VLAN support ▪ IEEE 802.1p tagged Frames. ▪ Automatic 802.1p tagging based on 802.1Q VLAN ID <p>QoS Support:</p>
<p>Ext. PoE Ethernet Ports:</p> <p>Each port has:</p> <ul style="list-style-type: none"> ▪ 4 x 802.3 10BASE-T/ 100BASE-TX RJ45 ports. Auto MDI/ MDIX. IEEE 802.3u compliant with Auto-Negotiation. IEEE 802.3af mode A (PoE) compliant Power Source. 	<p>Remote Management</p> <ul style="list-style-type: none"> ▪ Remote monitoring via SNMP ▪ NTP time synchronisation ▪ MAC Filter ▪ Web based device configuration ▪ Remote firmware upgrades via LAN ▪ MST device discovery protocol <p>Connectors</p> <p>Fibre:</p> <ul style="list-style-type: none"> ▪ MST Composite Fibre/ Power <p>External ports:</p> <ul style="list-style-type: none"> ▪ Rugged RJ45 <p>Wi-Fi:</p> <ul style="list-style-type: none"> ▪ RP-TNC antenna connectors <p>General</p> <p>Input voltage:</p> <ul style="list-style-type: none"> ▪ 8 to 54V DC <p>Operating temperature:</p> <ul style="list-style-type: none"> ▪ 0°C to 70°C <p>Storage temperature:</p> <ul style="list-style-type: none"> ▪ -20°C to 80°C

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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-WNS0611-AU

