



IMPACT

The FUTURE of mining communications

**Intrinsically Safe
Wireless Network Switch**



**Productivity & Safety through
Mine-Spec digital applications**

Remote monitoring & equipment control
Handheld device data transfer
IP Telephony
Remote video, fixed & mobile

IS Wireless Network Switch Specifications

The Mine Site Technologies Intrinsically Safe Wireless Network Switch is the heart of a scalable, high-speed, 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, control system management mobile data acquisition, real-time vehicle diagnostics and asset / personnel tracking right to the coal face. 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 addresses the challenge of power distribution in an underground environment.

Fibre Ports:	<ul style="list-style-type: none"> • 4 x 100BASE-FX single mode transceivers • IP67 connectors 	Remote Management	<ul style="list-style-type: none"> • Remote management via SNMP v1 or v3 • NTP protocol for keeping time synchronisation • Device modes: AP, bridge and repeater • MAC Filter • Support for configuration via: <ul style="list-style-type: none"> - Built in web server • Remote firmware upgrades via LAN • MST device discovery protocol
Wireless Radio Ports:	<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 	Connectors	<ul style="list-style-type: none"> • All connectors are IP67
Wireless Modulation:	<ul style="list-style-type: none"> • CCK (802.11b) • DSSS/OFDM (802.11g) 	General	<ul style="list-style-type: none"> • 8 – 15V DC • 0°C ~ 70°C • ≥ 90% • 360mm x 370mm x 60mm • Designed to IP67
Transmit Power:	<ul style="list-style-type: none"> • Min 20dBm 	Input voltage:	
Receive Sensitivity:	<ul style="list-style-type: none"> • 802.11b:- ≥ 1 Mbps: 95dBm • 11 Mbps: 90dBm • 802.11g:- ≥6 Mbps: 90dBm • 54 Mbps: 74dBm 	Operating temperature:	
Wireless Security	<ul style="list-style-type: none"> • WEP (64/ 128 bit encryption) • WPA & WPA2 (with TKIP and AES encryption) 	Max operating humidity:	
Switch Processor	<ul style="list-style-type: none"> • Wire speed switching. • Quality of Service (QoS) support with four traffic classes. • VLAN support 	Dimensions:	
QoS Support:	<ul style="list-style-type: none"> • IEEE 802.1p tagged Frames. • Automatic 802.1p tagging based on 802.1Q VLAN ID 	IP rating	
Redundancy:	<ul style="list-style-type: none"> • Spanning Tree Protocol allowing the network to have loops in it 		



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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.
 Photos of Atlas Copco Equipment – Courtesy of Atlas Copco. Z002/7182MS

