

IMPACT

The FUTURE of mining communications

Intrinsically Safe Wireless Network Switch



Productivity and Safety through Mine-Spec digital applications

Remote monitoring and equipment control Handeld and portable device data transfer IP Telephony Remote video, fixed and mobile



I.S. 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:

• 4 x 100BASE-FX single mode

transceivers

IP65 connectors

Wireless Radio Ports:

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

Wireless Modulation: • CCK (802.11b)

■ DSSS/OFDM (802.11g)

Transmit Power: Receive Sensitivity: Max Approved 24dBm (251mW)

1 Mbps: -95dBm ■ 802.11b:-

11 Mbps: -90dBm 6 Mbps:-90dBm

■ 802.11g:-54 Mbps: -74dBm

WEP (64/128 bit encryption)

WPA

WPA2

Switch Processor:

Wireless Security

Wire speed switching.

Quality of Service (QoS) support

with four traffic classes.

VLAN support

QoS Support: • IEEE 802.1p tagged Frames.

Automatic 802.1p tagging based

on 802.1Q VLAN ID

Redundancy: Spanning Tree Protocol **Remote Management**

Remote monitoring via SNMP

NTP time synchronisation

Device modes:

i AP

ii Bridge iii Repeater

MAC Filter

Web based device configuration

Remote firmware upgrades via

MST device discovery protocol

Connectors

All connectors are IP65

I.S. Approved Operating Range

• 8 - 15.1V DC • 1.5A DC Input voltage:

Max input current

• 0°C - 40°C Operating temperature:

Max operating humidity **90%**

Dimensions:

• 360mm x 370mm x 60mm

IP rating

Designed to IP65

Certifications

IEC - Exia **Certificate No.s**

IECEx TSA 10.0022X

MSHA - Exia 23-A100003-0









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MINE SITE **TECHNOLOGIES**