



Productivity and Safety through
Mine-Spec digital applications

IMPACT[™]

vehicle **intelligence**
platform



Time stamped vehicle diagnostics and payload data

Integrated proximity awareness

Integrated location tracking

Off-line data buffering

Mine Site Technologies' (MST) IMPACT VIP unit offers a comprehensive solution for vehicle diagnostics and payload monitoring in mining environments. The system allows remote monitoring of parameters across all major vehicle manufacturers. Giving a single unified monitoring system sending data from any area of the mine covered by the wireless network, if a vehicle travels beyond network coverage the VIP unit will log data until the vehicle comes back within range.

SPECIFICATIONS

WI-FI SPECIFICATIONS

- IEEE 802.11 b/g wireless
- 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

- Max +19dBm

Receive Sensitivity

- 802.11b: 1 Mbps: -94dBm
11 Mbps: -87dBm
- 802.11g: 6 Mbps: -87dBm
54 Mbps: -70dBm

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

DECODING PROTOCOLS

- MODBUS
- J1939
- J1587
- VIMS
- EAM

Interfaces

- CAN
- J1708
- RS232

CONNECTORS

Console

- M12 (8way)

LAN

- M12 Ethernet (4 way)

Wi-Fi

- RP-TNC connectors (diversity support)
- Vehicle:
- 30 way wiring harness

ETHERNET

- 10/100 wired Ethernet port

Configurable I/O's*

- 4 x RS232 Serial ports
- 8 x digital inputs (isolated)
- 2 x CAN ports
- 1 x J1708

GENERAL

- Operating temperature: 0°C to 70°C
- Storage temperature: -20°C to 80°C
- Operating humidity: 5% to 90% (Non-condensing)
- Input voltage: 8 to 54 V DC
- Battery backed real time clock
- Wi-Fi bridge for wired devices connected to the LAN port
- 2GB Onboard non-volatile data storage
- Built in Voltage and Temperature sensors
- IP66 Enclosure

*some of the I/O functions cannot be used simultaneously



MST offices and support centers are strategically located in the world's primary mining regions.

www.mstglobal.com
solutions@mstglobal.com

Australia

Sydney
Level 5, 113 Wicks Road
North Ryde
Sydney NSW 2113
Tel: +61 (0)2 9491 6500

Russia

Moscow
Office 318a
Lesnaya, 43
Moscow 127055
Tel: +7 (499) 978 72 11

United States

Denver
13301 W 43rd Drive
Golden, Denver
Colorado 80403
Tel: +1 303 951 0570

South Africa

Centurion
Unit 1, Oxford Office Park
3 Bauhinia St
Gauteng 0046
Tel: +27 (0) 12 345 6100

Chile

Santiago
Vitacura 2771, Of 503
Las Condes,
Santiago 7550134
Tel: +56 9 7772 3819

China

Hangzhou
Building 5
1413 Moganshan Road
Hangzhou 310011
Tel: +86 571 8580 3320 Ext 206