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 Pty Limited reserves the right to make changes to the specifications and information contained in this brochure at any time and without notice. MST-VIP0313-WW_V2
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
- 54 Mbps: -70dBm
- 802.11g: 6 Mbps: -87dBm
- 54 Mbps: -70dBm

**Wireless Security**
- WEP (64/128 bit encryption)
- WPA
- WPA2

**LAN SPECIFICATIONS**
- IEEE 802.3 10BASE-T & 100BASE-TX
- IEEE 802.3u Auto negotiation
- Automatic MDI/ MDIX crossover
- IEEE 802.3af mode A (PoE) compliant powered device
- 10/100 wired Ethernet port

**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**
- 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