



IMPACT

The FUTURE of mining communications

Vehicle Intelligence Platform



Productivity and Safety through
Mine-Spec digital applications

- Time stamped vehicle diagnostics and payload data
- Integrated proximity detection
- Location awareness
- Mine management data

Vehicle Intelligence Platform Unit Specifications

Mine Site Technologies' 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.

Wi-Fi Specifications:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> CCK (802.11b) DSSS/OFDM (802.11g)
Transmit Power:	<ul style="list-style-type: none"> Max +19dBm
Receive Sensitivity:	<ul style="list-style-type: none"> 802.11b:- 1 Mbps: -94dBm 11 Mbps: -87dBm 802.11g:- 6 Mbps: -87dBm 54 Mbps: -70dBm
Wireless Security	<ul style="list-style-type: none"> WEP (64/128 bit encryption) WPA WPA2

LAN Specifications:	<ul style="list-style-type: none"> 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.
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Decoding Protocols:	<ul style="list-style-type: none"> MODBUS J1939 J1587 VIMS EAM
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Interfaces:	<ul style="list-style-type: none"> CAN J1708 RS232
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Connectors	<ul style="list-style-type: none"> M12 (8way) M12 Ethernet (4 way) RP-TNC connectors (diversity support)
Console:	
LAN:	
Wi-Fi:	
Vehicle:	<ul style="list-style-type: none"> 30 way wiring harness

I/O Capabilities	<ul style="list-style-type: none"> 802.11b/g Wi-Fi radio with diversity support 10/100 wired Ethernet port
Configurable I/O's*	<ul style="list-style-type: none"> 4 x RS232 Serial ports 8 x digital inputs (isolated) 2 x CAN ports 1 x J1708

General	<ul style="list-style-type: none"> 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
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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

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