

Metal MultiTrak™ Reader



Designed for Extreme Environments



The Metal MultiTrak™, a one-of-a-kind, hybrid tracking solution that integrates multi-sensors, GPS, UHF and RFID. MultiTrak is designed for operation in harsh physical environments. The reader is enclosed in a rugged, severe weather and waterproof IP67 stainless steel enclosure for outdoor and hazardous use.

Applications

- Waste & Hazardous Waste Management
- Construction
- Parcel Pick-up
- In-Truck Asset Monitoring
- Vehicle Tracking
- Logistics
- Yard Management
- Cycle Counting

RFID/BLE Reader

The Metal MultiTrak™ from Venture Research provides the same functionality as the plastic housing version of the MultiTrak Reader but houses the unit with a stainless steel IP67 Rated shell. The shell withstands harsh conditions including corrosive salt water environments.

Product Features

| Features | Benefits |
|---|--|
| IP67 Rated Stainless Steel Housing | Waterproof and can survive in harsh environments including salt water |
| UHF RFID | Real-time location and asset tracking with a built in Gen 2 RFID antenna. |
| GPS | Accurate Reader and Asset Positioning with GPS and GLONASS satellites |
| Vehicle Mountable with Regulated Power Supply Accepts 12V-24V | Can directly connect to all vehicles or industrial equipment. |
| Linux Lightweight Package Management | Designed for embedded devices, allowing users to easily install and uninstall any supported packages and minimize bandwidth. |
| 4 Antenna Ports | Up to 4 antennas may be connected to the reader for increasing the coverage area as needed |
| Real-time Support 24 x 7 x 365 | All products from Venture Research contain the "capability" for automatic alerting and self-diagnosis for real time monitoring of the system operability backed by our 24x7x365 support infrastructure |

Specifications

Electrical Specifications

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|------------------|---|
| Model | VRMETALMULT |
| UHF Reader | 1 Watt US – GEN2 4 Port UHF RFID Reader, ETSI also available |
| Console Port | RS232-interface |
| GPIO | Software, Optional Proximity Sensor, Mag Switch, Contact Closure or CAN Peripherals |
| UHF Antennas | 4 RP-TNC Antenna Ports |
| Power | Waterproof power cable to 12-24V vehicle power. Optional 110V power supply. |
| LED Indicators | Red, White, and Blue outdoor visible diagnostic LEDs |
| GPS | GPS and GLONASS satellite constellation support |
| CAN | External Peripheral support through CAN Bus |
| Operating System | Linux embedded, Yocto build |
| Serial Port | Auxiliary Serial RS-232 port running VR Reader API for VMTs |

Dimensions

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|-----------------------------|---|
| Cable Cap | 3" L x 9 1/8" W x 1 9/16" D |
| Single Antenna Reader | 14.5" L x 9 1/8" W x 1 9/16" D (w tabs) |
| Single Antenna Reader w/cap | 20.5" L x 9 1/8" W x 1 9/16" D |

Warranty

- 1 year parts and labor
- 24 x 7 x 365 support available with optional support program



Options

Power Configuration

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|---|----------------------|
| Power supply for 110 VAC w/ molex connector | METALMULT-OPT-PW-110 |
|---|----------------------|

Peripherals

| | |
|--|----------------------|
| External Photo Eye | METALMULT-OPT-EPHOT |
| External IP-67 Rated Annunciator | METALMULT-OPT-ANNUNC |
| External Proximity Monitor | METALMULT-OPT-PROX |
| Magnetic Switch | METALMULT-OPT-MAG |
| Observation Button: 3 buttons with LED's, 50' cable CAN Bus connection | VR-OPT-OBS |

External Antennas

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|-----------------------------------|------------------------|
| Secondary RFID Antenna Connection | VRR1ADCM-OPT-RFIDANT-E |
| Tri-Band Antenna with annunciator | VR1-OPT-TRIBAND |

Mount

| | |
|---------------------------------|--------------------------|
| 2 Flat Bracket Mount | METALMOUNT-OPT-MT |
| Forklift Arm Dual Antenna Mount | VR-OPT-WIFIGPSLTE-ANT-MT |
| Cable Cap | CABLE-CAP |
| Universal Rack Mount | VR-OPT-UNIV-MOUNT |