VENTURE Research Inc.

Metal MultiTrak™ Reader

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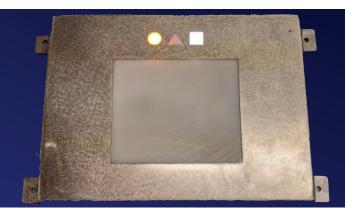
The Metal MultiTrak™, a one-of-a-kind, hybrid tracking solution that integrates multi-sensors, GPS, UHF and RFID. MultiTrak is designed for operation in harsh physical environments. The reader is enclosed in a rugged, severe weather and waterproof IP67 stainless steel enclosure for outdoor and hazardous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

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

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

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

Slave 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

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All Venture Research Inc. Products are proudly made in the USA.