



TECHNICAL SPECIFICATIONS

Specification Overview

- Field Upgradable - change cell carriers and cellular technology by swapping out off-the-shelf USB cards.
- Automated switching between Cellular and WiFi for Internet backhaul for high-speed video and image file uploads.
- WiFi hotspot for client devices
- GPS
- Vehicle Diagnostics
- RFID



WiFi

Host

Frequency 2.4 GHz
Protocol 802.11b/g

Backhaul (optional)

Frequency 2.4 GHz, 5.0 GHz
Protocol 802.11 a/b/g/n

Cellular

Protocols

GPRS, CDMA EVDO Rev A, Rev 0, 1xRTT, HSDPA, HSUPA, HSPA+, EDGE, UMTS

Connection Type

Mini PCIe (embedded)
USB

Carriers - Rocket-Certified Datacard Card Required (3G and 4G LTE)
AT&T, Sprint, Verizon, US Cellular, Telus, T-Mobile

RFID

Embedded Reader Included

Support for Active, 2.4 GHz WiFi Asset and Personnel Tags

Enterprise Remote Management

Schedule "Over the Air" Firmware and Configuration Updates whether devices are powered on or not from your desk.

- Networking, Security Parameters, GPS Events, RFID, Vehicle Diagnostics, etc.
- Update Single Units or Entire Enterprise

Security

WLAN Security & Authentication

- WPA/WPA2
- 802.1x/RADIUS authentication
- Key Management WPA-PSK and WAP-EAP (PEAP, TLS)

Firewall

- Port Forwarding
- Port Blocking
- All Outbound Protocol Supported

Encryption

- IPSec- No client VPN software required on connected devices.

Network Selection

- Multiple WAN connections

GPS

Physical

SiRF Star IV 48 Channel embedded chipset
NMEA or TAIP format available

GPS Multicast

Live GPS data available to locally connected devices.

Server Distribution

Simultaneous reporting to 3 IP addresses and ports (plus AVail software if needed).

Event Based GPS Reporting

Configurable within RCM software - based on GPS events including: start, stop, pause, turn X degrees, speed thresholds, duration, and distance.

Key Specifications

- Supports external Quad-band antenna, requiring only 1 antenna to install.
- Supports wireless man-down alerts from a compatible device.
- Operates on an external USB data stick from any cellular carrier.
- Reads active RFID tags within range of 1000 ft.
- Router is housed in a tamper-proof container.
- Rocket and Locker have tool-less entry and exit from a vehicle.
- Supports IPSEC to any VPN concentrator.
- Supports Radius Authentication at the host and client level.
- Provides multiple backhaul routes for redundancy and fail over, configurable by an administrator.
- Capable of sending near real-time data to a customer hosted server in SQL or XML format.
- Devices are configurable over the air by group or subgroup regardless of power status.

PHYSICAL CHARACTERISTICS

Power

12v DC

Material

Thermal Set Composite

Rocket Locker

Tamper-Proof Enclosure for Physical Security
Simplifies Installation
Internal Cable Management with Strain Relief
Power Management

- High/Low Voltage Protection
- Power Timer with programmable shut down delay (15 min. - 8 hours)
- Locking Mount
- Tool-less Access/Removal- Integrated Master Lock

GPS Chipset

- 48 Channel SiRF Star IV GPS chipset
- 400,000+ correlators for fast TTFF and high sensitivity acquisition
- GPS+WAAS simultaneous signal processing

4-Port Digital I/O

Ethernet

One RJ-45 10/100 LAN

USB

One USB 2 Series A port in lid, One (1) USB 2 Series A port on end

Serial

One Nine Pin

Connectors

Four Available Reverse SMA
One SMA
Two Available FME
Two Cellular

Dimensions

Length 9.50"/254mm
Height 6.89"/177mm
Width 1.82"/50mm
Weight 3lbs/1.36kg

Certifications

FCC
Temperature
Shock and Vibration
Rail Certification Standard

Class B Device

MIL STD 810F

IEC 61373:2010

- EN 55011: 1998 +A1:1999 +A2:2002
- EN 61000-4-2: 1995 +A1:1998
- EN 61000-4-3: 2002
- EN 61000-4-4: 2004
- EN 61000-4-5: 1995 +A1:2001
- EN 61000-4-6: 1996 +A1:2001
- ASTM E162* (tested to NFPA 130)
- ASTM E622* (tested to NFPA 130)
- ASTM 7239* (tested to BSS 7239)

Smoke Flame and Toxicity

Processor and Storage

AMD Geode LX processor
Linux OS
1GB solid state memory

Tolerances

Power 7v - 20v
Temperature -30° to +60°C
Humidity 0-95%

* Special Order Required

ON BOARD DIAGNOSTICS

Connection Types

Rocket Serial Port to
OBD II, JBUS, CAN

Protocols

J1939, J1708, J1979

Cabling Length

14ft.



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