

## PRESIDIO'S REX SOLUTION SERIES

The REX Solution Series, part of Presidio System Engineering's EnviroXtreme product family, delivers an industrial grade, secure IP networking platform to enable your organization in extending voice, video and data systems to mobile vehicles and facilities where environmental conditions limit the use of commercial, off-the-shelf products.

With a design based on MIL-STD-810F, the REX is optimal for extending network services to any application in extreme conditions where mission critical applications are vital. The REX supports both rugged mobile and outdoor fixed environments.



### System Applications:

The REX is designed for any harsh environment where network and computing resources are required. With the wide variety of connectivity options available on the REX it is ideally suited for any application that requires local computing power and communications paths to reach backend infrastructures. The REX is designed for locomotive, transportation, utility, law enforcement, or any application that requires ruggedized computing and communications resources. With its diverse communications options and through the use of Mobile IP technology the REX provides users with a platform that seamlessly roams utilizing the best available communications path to reach backend network applications.

### Enclosure Design:

The unique enclosure design of the REX dissipates heat via its custom enclosure comprised of thermal plates that act as a heat sink. The REX utilizes all solid state components and contains no moving parts. The ruggedized enclosure permits the REX to be deployed in harsh and extreme environments. The enclosure is factory sealed to lock out water, dust, and humidity. The enclosure is based on a modular design allowing the REX to be customized with optional components.

- MIL-STD-810F
- IP67
- AAR (American Association of Railroads) S-5702
- System Operating Temperature -40C to +70C
- System dimensions: 6 MRU enclosure fitting within a 7.50" × 11.50" × 9.25" footprint
- Weight: 33lbs
- Power requirements: 50W @ 74VDC nominal

- Intelligent Power Supply:
  - Over/Under voltage monitoring. User modifiable limits.
  - Over current monitoring. User modifiable limits.
  - Automatic shutdown of individual component power rails if a fault condition is detected.
  - User toggling of power rails to individual components.
  - Status of previous fault condition.
  - Auto reboot functionality

### Specifications

<b>Temperature</b>	Operating Temp	-40C to +70C
	Storage Temp	-40C to +85C
<b>Humidity</b>	Operating & Storage	0%-95% Non-Condensing
<b>Vibration</b>	Random, 5 to 10 Hz	7.6 mm p-p
	Random, 10 to 200 Hz	1.5 G peak
	Sinusoidal, 1 to 20 Hz	1 G
	Sinusoidal, 20 to 200 Hz	2 G
	Sinusoidal, 120 to 200 Hz	2-3 G ramp
<b>Mechanical Shock</b>	Shipping, 36-in drop	10 G peak
	Mounted	10 G peak
<b>Electrical Protection ESD Tolerance</b>	Unpowered, Direct Contact Discharge	4kV, 15.0A
	Unpowered, Air Discharge	4kV
	Powered, Direct Contact Discharge	2kV, 7.5A
	Powered, Air Discharge	2kV
<b>Power</b>	Nominal Operating Voltage	+74 VDC at 1A
	Operating Voltage Range	+43 to +105 VDC
	Surge Protection	3.5 x Vin for 20ms
	Reverse Polarity Protection	

Feature	Description	
<b>Processor</b>	Intel Core 2 Duo SP9300 (2.26GHz)	
<b>Memory</b>	Up to 4GB DDR3	
<b>Storage</b>	Up to 128 GB Industrial SSD	
<b>Ethernet Switching</b>	Cisco IE 3000 Industrial Ethernet Switch	
<b>3G Cellular</b>	Up to 2 Sierra Wireless RavenX(E) Gateways (EV-DO/HSDPA/HSUPA)	
<b>802.11 Wi-Fi</b>	<b>Cisco Routing</b>	Up to 2 Cisco 3200 Series Wireless Mobile Interface Card(s) <ul style="list-style-type: none"> <li>• 2.5 Ghz (802.11b/g) – Cisco 3201</li> <li>• 4.9 Ghz (public safety) – Cisco 3202</li> </ul>
	<b>Presidio VSI Routing</b>	Up to 2 Ubiquiti SR71-A 802.11 a/b/g/n Modules
<b>Routing Service</b>	<b>Cisco Routing</b>	Cisco 3200 Series Mobile Access Router
	<b>Presidio VSI Routing</b>	Integrated routing platform on General Purpose Computer
<b>OS Support</b>	Red Hat Enterprise Linux 6	

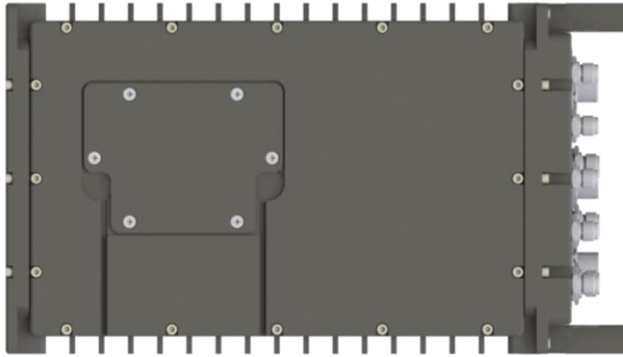


Figure 2 - Top View and Access Panel



Figure 1 - Front Panel

### Interfaces and Connectors

- (6) M12 10/100 Ethernet
- (1) serial port (RX/TX only) for direct interface to the Power Supply Monitor. Allows direct status and control functionality of the Power Supply Monitor
- Up to (10) Serial Console
- (8) High Speed USB
- (1) VGA
- (1) User Accessible 2.5-inch SATA Bay
- 2X3 MIMO WiFi RP-TNC Antenna Ports
- 2X2 Cellular Modem TNC Ports

### Warranty and Support Options

There are several warranty and customized support options available for the REX. Warranty and support agreements are custom tailored for each configuration and application and are negotiated with your Presidio Systems Engineering account team.