SIERRA WIRELESS®

AirLink® RV50X

PulseSupply
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	North America & EMEA	Asia Pacific
LTE		
LTE CATEGORY	Cat 6	
Peak D/L	Up to 300 Mbps	
Peak U/L	Up to 50 Mbps	
4G LTE Frequency Bands*	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 700(B12), 700(B13), 800(B20), 1900(B25), 850(B26), 700(B29), TDD B41	2100(B1), 1800(B3), 850(B5), 2600(B7), 900(B8), 850(B18), 850(B19), 1500(B21), 700(B28), TDD 38, TDD 39, TDD 40, TDD 41
3G HSPA/HSPA+ Frequency Bands*	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 900(B8)	2100(B1), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19),
3G TD-SCDMA Frequency Bands*		B39
APPROVALS		
Regulatory	FCC, IC, PTCRB, R&TTE, GCF, CE	RCM, JRF/JPA, Anatel
Carrier	Verizon, AT&T, T-Mobile USA, Southern Linc, Sprint, US Cellular, Rogers, Telus, Bell	Telstra
PART NUMBERS	1103052	1103045 1103973 (China)

For carrier specific band support please refer to the hardware user guide.

	Specification		Specification
HOST INTERFACES	10/100/1000 Ethernet (RJ45)	SATELLITE NAVIGATION (GNSS)	12 Channel GPS and GLONASS Receiver
	RS-232 serial port (DB-9)		Acquisition Time: 1 s Hot Start
	USB 2.0 Micro-B Connector		Accuracy: <2 m (50%), <5 m (90%)
	3 SMA antenna connectors (primary, diversity, GPS)		Tracking Sensitivity: -145 dBm
	Active GPS antenna support		Reports: NMEA 0183 V3.0, TAIP, RAP, XORA
INPUT/OUTPUT	Configurable I/O pin on power connector		Multiple Redundant Servers
	• Digital Input ON Voltage: 2.7 to 36 VDC		Reliable Store and Forward
	• Configurable Pull-up for dry contact input	NETWORK MANAGEMENT	Secure network management applications available in the cloud or licensed platform in the enterprise data center
	• Digital Open Collector Output > sinking 500 mA		Fleet wide firmware upgrade delivery
	• Analog Input: 0.5-36 VDC		Router configuration and template management
LAN (ETHERNET/USB)	DNS, DNS Proxy		Router staging over the air and local Ethernet connection
	DHCP Server		Over-the-air software and radio module firmware updates
	IP Passthrough		Device Configuration Templates
	VLAN		Configurable monitoring and alerting
	Host Interface Watchdog		Remote provisioning and airtime activation (where applicable)
	PPPoE	GATEWAY MANAGEMENT INTERFACES	ALMS
SERIAL	TCP/UDP PAD Mode		Local web user interface
	Modbus (ASCII, RTU, Variable)		AT Command Line Interface (Telnet/SSH/Serial)
	PPP		SMS Commands
	DNP3 Interoperability		SNMP

	Specification
NETWORK AND ROUTING	Network Address Translation (NAT)
	Port Forwarding
	Host Port Routing
	NEMO/DMNR
	VRRP
	Reliable Static Route
	Dynamic DNS
	Policy Routing
	Verizon ANTM
	IPv6 Gateway
VPN	IPsec, GRE, and OpenVPN Client
	Up to 5 concurrent tunnels
	Split Tunnel
	Dead Peer Detection (DPD)
	Multiple Subnets
EVENTS ENGINE	Custom event triggers and reports
	Configurable interface, no programming
	Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature and Voltage
	Report Types: RAP, SMS, Email, SNMP Trap, TCP (Binary, XML, CSV)
	Event Actions: Drive Relay Output
DIMENSIONS	119 mm x 34 mm x 85 mm (94 mm including connectors)
	4.69 in x 1.34 in x 3.35 in (3.70 in including connectors)
SECURITY	Remote Authentication (LDAP, RADIUS, TACACS+)
	DMZ
	Inbound and Outbound Port filtering
	Inbound and Outbound Trusted IP
	MAC Address Filtering
	PCI compatible
APPLICATION FRAMEWORK	ALEOS Application Framework (AAF)
	LUA Scripting Language
	Eclipse-based IDE
	Integrated with AirVantage®
	Dual-Core Processing

	Specification
POWER	Input Voltage: 7 to 36 VDC
	LTE Idle Power: 900mW (75 mA @ 12VDC)
	Standby Mode Power: 53 mW (4.4 mA @ 12 VDC) triggered on low voltage, I/O or periodic timer
	Low voltage disconnect to prevent battery drain
	Built-in protection against voltage transients including 5 VDC engine cranking and +200 VDC load dump
	Ignition Sense with time delay shutdown
	Configurable features and ports to optimize power consumption
ENVIRONMENTAL	Operating Temperature: -40°C to +70°C / -40°F to +158°F
	Storage Temperature: -40°C to +85°C / -40°F to +185°F Humidity: 90% RH @ 60°C
	Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity
	IP64 rated ingress protection
INDUSTRY CERTIFICATIONS	Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950
	Vehicle Usage: E-Mark (UN ECE Regulation 10.04), ISO7637-2, SAE J1455 (Shock & Vibration)
	Hazardous Environments: Class 1 Div 2
	Environmental: RoHS, REACH, WEEE
SUPPORT AND WARRANTY	Includes 1st Year AirLink Complete:
	• AirLink Management Service (ALMS)
	• Direct 24/7 Technical Support
	• 3-year standard warranty; optional 2-year warranty extension
	1-day Accelerated Hardware Replacement available through participating resellers
ACCESSORIES	In the Box: DC Power Cable and Quick Start Guide Other Accessories (sold separately): 2000579 AC Adapter, 12VDC 6000659 DIN Rail Bracket For antenna options visit: sierrawireless.com/antennas

Related AirLink Products

AIRLINK DEVICE MANAGEMENT SOLUTIONS

AirLink Management Service (ALMS)

- Secure, Cloud-based network and asset management
- Remotely deploy, configure, monitor and manage AirLink devices
- Carrier-grade, high availability, secure, global infrastructure

AIRLINK VPN APPLIANCE

AirLink Connection Manager

- VPN appliance built from the ground up for AirLink routers & gateways
- Simplify deployment and management of your VPN solution, extending the enterprise to the network edge for fixed and mobile endpoints
- Carrier agnostic – ACM doesn't require fixed and/or public IP
- Compatible with FIPS 140-2, and always-on VPN capability

AIRLINK ANTENNA SOLUTIONS

AirLink Antennas

- Tested and certified to provide guaranteed performance with all AirLink routers and gateways
- Accelerate deployment with always-on, end-to-end connectivity

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About Sierra Wireless
Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is the leading IoT solutions provider that combines devices, network and software to unlock value in the connected economy. Companies globally are adopting IoT to improve operational efficiency, create better customer experiences, improve their business models and create new revenue streams. Whether it's a solution to help a business securely connect edge devices to the cloud, or a software/API solution to help manage processes associated with billions of connected assets, or a platform to extract real-time data to make the best business decisions, Sierra Wireless will work with you to create the right industry-specific solution for your next IoT endeavor. Sierra Wireless has more than 1,300 employees globally and operates R&D centers in North America, Europe and Asia.