





AirLink® XR80















5G High-Performance Multi-Network Router for Public Safety, Field Service Fleets and Mission-Critical Fixed Applications

XR80 Product Description

The supercharged AirLink XR80 is optimized for fixed and mobile applications. The available dual-5G cellular radio and 4X5 MIMO Wi-Fi 6 delivers flexibility for customized configurations. The AirLink XR80 supports complete device-to-cloud security, reduces your total cost of ownership with ALMS Out-of-Band management, and with the cartridged-based design, enables long-term expandability and upgradability.

AIRLINK XR80 5G

Rugged 5G router capable of 4.14 Gbps download and 660 Mbps upload. Wi-Fi optional.

AIRLINK XR80 LTE CAT 20

Rugged LTE Cat 20 router capable of 2.0 Gbps download and 210 Mbps upload. Wi-Fi optional.

Ideal Applications

Mobile mission critical applications in public safety and field service fleets, Fixed Wireless Access, SCADA, Edge and industrial IoT.

- Ambulance/EMS
- Law Enforcement
- Utility Bucket Trucks
- Commercial Fleets
- Manufacturing

- Fixed Utility Applications
- Pipeline monitoring
- Remote Learning
- Retail, Digital Signage and Security

Benefits

- Designed for fixed and mobile mission and business-critical applications that require ultimate connectivity and reliability
- Real-time connectivity with unmatched uplink and downlink speeds using 5G, LTE Cat 20, Wi-Fi 6, and 5 Gbps Ethernet technology
- "Always-on" connectivity delivers consistent primary and backup connectivity for public and private networks using AirLink Sierra Wireless Cognitive Wireless
- Simplified set up and useability with new AirLink OS and upgraded AirLink Management Service (ALMS)
- AirLink Complete with ALMS Out-of-Band Management provides zero-touch set up and reduced service calls
- Ready for your Edge computing workloads





AirLink XR80 - Router Specifications

CELLULAD		LIOCT INITEDERCE	
CELLULAR		HOST INTERFACES	
Peak D/L	XR80 5G – Up to 4.14 Gbps DL, 4G LTE Cat 20 - Up to 2 Gbps DL	Main body	3x RJ-45 Ethernet ports (1x 5Gbps, 2x 1Gbps), With cartridge: 4x RJ-45 Ethernet ports (1x 5Gbps, 3x 1Gbps) LPWA ALMS Out-of-Band Management USB 3.2 Type-C port Dual RS-232 serial port on RJ-45 Aux Port (GPIO/CAN) Dual SIM Slots 11 FAKRA antenna connectors (Dual 4x4 Cellular, 5x4 Wi-
	XR80 LTE Cat 20 – 4G LTE Cat 20 - Up to 2 Gbps DL		
Peak U/L	XR80 5G – Up to 660 Mbps UL, 4G LTE Cat 20 - up to 210 Mbps UL		
	XR80 LTE Cat 20 – UL 4G LTE Cat 20 - up to 210 Mbps UL		Fi, GNSS, LPWA)
5G		SECURITY	
Frequency Bands	Sub-6 Non-standalone (NSA): n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79 (Future Variant) Sub-6 Standalone (NSA & SA): n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66,	AAA	802.1x /Radius authentication with Wi-Fi and Ethernet
		Firewall	Stateful firewall with port forwarding, DMZ
4G LTE	n71, n77, n78, n79	WLAN Encryption	WPA2/WPA3 Personal/Enterprise FIPS 140-2
Frequency Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19,	WI-FI (Optional)	
,	B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43 (future), B46, CBRS B48, B66, B71		4x4 MIMO Wi-Fi 6 AP/STA up to 2.4Gbps 1x1 MIMO Wi-Fi 6 STA Rx only
3G WCDMA/HSPA	+		Support for 128 clients WPA2/3Enterprise
Frequency Bands	B1, B2, B3, B4, B5, B6, B8, B9, B19		Wi-Fi WAN and Wi-Fi Access Point (concurrently) High output power 23 dBm (per chain)
LPWA			Captive Portal (future)
Frequency Bands	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66	Temperature Operating Temperature: -30°C to +70°C / -22°F to	
APPROVALS		Temperature	+158°F
Regulatory*	FCC, IC/ISED, PTCRB, GCF, CE, RED, RCM		Storage Temperature: -40°C to +85°C / -40°F to +185°F Humidity: 95% RH @ 60C
Carrier*	Verizon, AT&T, T-Mobile, BT, Telstra		IP64 rated ingress protection
PART NUMBERS			MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity
North America	XR80 5G – XR80 Single 5G (1104793) XR80 Single 5G Wi-Fi (1104789) 5G Expansion Cartridge (Optional) (1104757)	POWER	
		Input/Operating Voltage	7 to 36 VDC
	XR80 LTE Cat 20 – XR80 LTE Cat 20 Single 4G (1104881) XR80 LTE Cat 20 Single 4G Wi-Fi (1104879) 5G Expansion Cartridge (Optional) (1104757)	Power modes	Peak 54W (4.5A @12V); Standby 55mW (4.5mA@12V) Built-in protection against voltage transients including 5VDC engine cranking Ignition Sense with time delay shutdown
Global	XR80 5G – XR80 Single 5G (1104791) XR80 Single 5G Wi-Fi (1104787) 5G Expansion Cartridge (Optional) (1104757)		
	XR80 LTE Cat 20 — XR80 LTE Cat 20 Single 4G (1104880) XR80 LTE Cat 20 Single 4G Wi-Fi (1104878) 5G Expansion Cartridge (Optional) (1104757)		

^{*}All approvals are either granted or in progress. Call for the latest approval status.





AirLink XR80 - Router Specifications

NETWORK AND F	OUTING
	Sierra Wireless Cognitive Wireless
	IPv4 and IPv6 Routing
	Network Address Translation (NAT)
	LAN Segmentation
	IPv4 Passthrough and IPv6 Prefix Extension
	WAN/LAN Connection Policy Management
	Policy-Based Routing
	<u> </u>
QoS	Application/ Traffic Priority Queuing
WAN Monitors	Connection Failure Recovery
	Configurable MTU size
	Multiple LAN Support
	Customize transmission buffer size
	Static Routing
	WAN Ethernet
VPN	
U. IU	L. L. W. ACAMONIC
	Integrated with ACM VPN Server
	IPsec protocol with IKEv1/IKEv2
	FIPS 140-2
Encryption	AES128/AES192/AES256
Hashing	SHA256/SHA384/SHA512
Key Exchange	DHGroup14/15/16/17/18/19/20/21
	LAN to LAN and Host to LAN
	Up to 10 concurrent tunnels per link
	MOBIKE protocol
	·
	IP compression
	Full/Split Tunnel
	Dead Peer Detection (DPD)
INDUSTRY CERTI	FICATIONS*
Safety	IECEE Certification Bodies Scheme (CB Scheme), UL 60950
Vehicle Usage	E-Mark (72/245/EEC, 2009/19/EC), ISO7637- 2, SAE
verilcie Osage	J1455 (Shock & Vibration)
	ין אווטנג ע אוטומנוטוון בכדין ב
Environmental	RoHS2, REACH, WEEE, C1D2
Rail Usage	EN50155 (Rolling Stock)
RELIABILITY	
MTBF	Dual radio: 32.8 years (Telcordia SR-332 Issue3 Method1)
SUPPORT AND W	ARRANTY
	1 year standard warranty with up to 5 years extended
	warranty with current AirLink Complete subscription.

^{*}All approvals are either granted or in progress. Call for the latest approval status.

ACCESSORIES

In the box

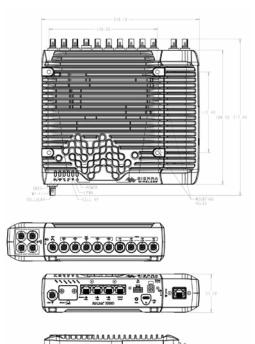
XR80, DC Power cable, LPWA Antenna, Quick Start Guides,

- Options:
- Mounting bracket (6001350)
- AC Adapter (6001372)
- I/O Cable (6001004)
- Antennas (See sierrawireless.com)
- 5G Expansion Cartridge (1104757)

EDGE COMPUTING

Edge Compute containerized applications (future)

DIMENSIONS	
AirLink XR80 – Main Body	220mm x 170mm x 53mm (6.69in x 8.66in x 2.08in) Weight: Non Wi-Fi 1.80 Kg (4.0 Lbs) Wi-Fi 2.00 Kg (4.4 Lbs)
AirLink XR80 – Main Body with Single 5G Expansion Cartridge	220mm x 220mm x 53mm (8.66in x 8.66in x 2.08in) Weight: 2.64 Kg (5.8 Lbs)









XR80 Services and Support



AIRLINK COMPLETE

Maximize your AirLink XR80 hardware investment and ensure your applications operate at peak efficiency by subscribing to our best-in-class service and support including:

- AirLink Management Service (ALMS) network management
- Optional Advanced Mobility Reporting (AMR)
- 24/7/365 Tier 1 technical support from wireless experts via phone or online access
- Extended hardware warranty up to 5 years
- For more information on AirLink Complete visit our web page



PROFESSIONAL SERVICES

Our <u>Professional Services</u> experts are well-versed in the latest enterprise networking and security standards. Harvesting experience and lessons-learned over thousands of customer deployments, our best practices are expertly tailored to help you architect and deploy your cutting-edge AirLink solutions.



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 ANTENNAS

- Tested and certified to provide guaranteed performance with all AirLink routers and gateways
- · Accelerate deployment with always-on, end-to-end connectivity
- For more information on antennas specific to the XR80 router visit our web page

For more information contact us:



USAT | Connect What's Critical™ 605 Eastowne Drive, Chapel Hill, NC 27514

Phone: (888) 550-8728
Email: info@usatcorp.com
Web: https://usatcorp.com

About Sierra Wireless

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is a world leading IoT solutions provider that combines devices, network services, and software to unlock value in the connected economy. Companies globally are adopting 4G, 5G, and LPWA solutions to improve operational efficiency, create better customer experiences, improve their business models, and create new revenue streams. Sierra Wireless works with its customers to develop the right industry-specific solution for their IoT deployments, whether this is an integrated solution to help connect edge devices to the cloud, a software/API service to manage processes with billions of connected assets, or a platform to extract real-time data to improve business decisions. With more than 25 years of cellular IoT experience, Sierra Wireless is the global partner customers trust to deliver them their next IoT solution.

For more information, visit ${\color{blue} \mathbf{www.sierrawireless.com}}.$



Sierra Wireless, the Sierra Wireless logo, AirPrime, AirLink, AirVantage and the red wave design are trademarks of Sierra Wireless. Other registered trademarks that appear on this brochure are the property of the respective owners. © 2021 Sierra Wireless, Inc. 2021.12.15