

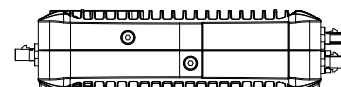
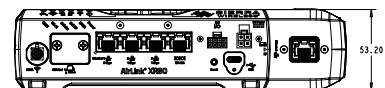
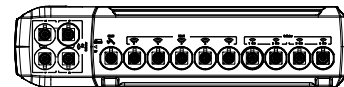
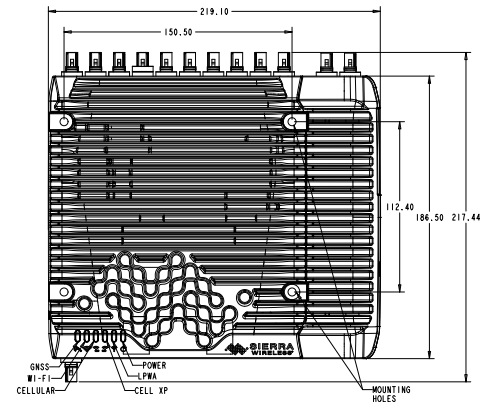


	North America	Global
CELLULAR		
Peak D/L	5G - Up to 4.14 Gbps DL, 4G LTE-A Pro CAT20 - Up to 2 Gbps DL	
Peak U/L	5G - Up to 660 Mbps UL, 4G LTE-A Pro CAT20 - 210 Mbps UL	
5G		
Frequency Bands	Sub-6: n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79	
4G LTE		
Frequency Bands	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 700(B12), 700(B13), 700(B14), 700(B17), 850(B18), 850(B19), 800(B20), 1900(B25), 850(B26), 700(B28), 700(B29), 2300(B30), 1500(B32), TDD B38, TDD B39, TDD B40, TDD B41, TDD B42, TDD B46, CBRS B48, 1700(B66), 600(B71)	
3G WCDMA/HSPA+		
Frequency Bands	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)	
LPWA		
Frequency Bands	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B14, B17, B18, B19, B20, B25, B26, B27, B28, B66	
APPROVALS		
Regulatory	FCC, IC, PTCRB, GCF, CE, RED, RCM	
Carrier	Verizon, AT&T, T-Mobile (pending)	
PART NUMBERS	Single 5G 1104793 non-Wi-Fi Single 5G 1104789 Wi-Fi Optional 5G cartridge (future)	Single 5G 1104791 non-Wi-Fi Single 5G 1104787 Wi-Fi Optional 5G cartridge (future)

	Specification
HOST INTERFACES	Single 5G: 3x RJ-45 Ethernet ports (1x5Gbps with PTP IEEE 1588, 2x1Gbps) 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-Fi, GNSS, LPWA)
SECURITY	AAA: 802.1x /Radius authentication with Wi-Fi and Ethernet Firewall: Stateful firewall with port forwarding, DMZ, WLAN Encryption: WPA2/WPA3 Personal/Enterprise FIPS 140-2
WI-FI (OPTIONAL)	4x4 MIMO Wi-Fi 6 AP/STA up to 2.4Gbps 1x1 MIMO Wi-Fi 6 STA Support for 128 clients WPA2/3Enterprise Wi-Fi WAN and Wi-Fi Access Point (concurrently) High output power 21 dBm (per chain) Captive Portal (future)

	Specification
ENVIRONMENTAL	<p>Operating Temperature: -30°C to +70°C / -22°F to +158°F</p> <p>Storage Temperature: -40°C to +85°C / -40°F to +185°F</p> <p>Humidity: 95% RH @ 60C</p> <p>IP64 rated ingress protection</p> <p>MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity</p>
POWER	<p>Input/Operating Voltage: 7 to 36 VDC</p> <p>Power modes: Peak 54W (4.5A @12V); Standby 55mW (4.5mA@12V)</p> <p>Built-in protection against voltage transients including 5 VDC engine cranking</p> <p>Ignition Sense with time delay shutdown</p>
NETWORK AND ROUTING	<p>Sierra Cognitive Wireless</p> <p>IPv4 and IPv6 Routing</p> <p>Network Address Translation (NAT)</p> <p>LAN Segmentation</p> <p>IPv4 Passthrough and IPv6 Prefix Extension</p> <p>WAN/LAN Connection Policy Management</p> <p>Policy-Based Routing</p> <p>QoS: Application/ Traffic Priority Queuing</p> <p>WAN Monitors: Connection Failure Recovery</p> <p>Configurable MTU size</p> <p>Multiple LAN Support</p> <p>Customize transmission buffer size</p> <p>Static Routing</p> <p>WAN Ethernet</p>
VPN	<p>Integrated with ACM VPN Server</p> <p>IPsec protocol with IKEv1/IKEv2</p> <p>FIPS 140-2</p> <p>Encryption: AES128/AES192/AES256</p> <p>Hashing: SHA256/SHA384/SHA512</p> <p>Key Exchange: DHGroup14/15/16/17/18/19/20/21</p> <p>LAN to LAN and Host to LAN</p> <p>Up to 10 concurrent tunnels per link</p> <p>MOBIKE protocol</p> <p>IP compression</p> <p>Full/Split Tunnel</p> <p>Dead Peer Detection (DPD)</p>

	Specification
INDUSTRY CERTIFICATIONS	<p>Safety: IECCE Certification Bodies Scheme (CB Scheme), UL 60950</p> <p>Vehicle Usage: E-Mark (72/245/EEC, 2009/19/EC), ISO7637-2, SAE J1455 (Shock & Vibration)</p> <p>Environmental: RoHS2, REACH, WEEE</p> <p>Rail Usage: EN50155 (Rolling Stock)</p>
RELIABILITY	MTBF: Dual 5G: 32.8 years (Telcordia SR-332 Issue3 Method1)
SUPPORT AND WARRANTY	<p>3-year standard warranty; Optional 1/2-year warranty Extension</p> <p>Unrestricted critical firmware updates</p>
ACCESSORIES	<p>In the box: XR80, DC Power cable, LPWA Antenna, XR80 Quick Start Guide, ALMS Quick Start Guide</p> <p>Mounting bracket (6001350)</p> <p>AC Adapter (6001372)</p> <p>I/O Cable (6001004)</p> <p>Antennas (See sierrawireless.com)</p> <p>5G Expansion Cartridge (future)</p>
EDGE COMPUTING	Support for Edge Compute Containerized Applications (future) Azure IoT Integration (future)
DIMENSIONS	<p>AirLink XR80 – Main Body</p> <p>220mm x 170mm x 53mm (8.69in x 6.69in x 2.08in)</p> <p>Weight: 2.06 Kg (4.5 Lbs.)</p> <p>AirLink XR80 – Main body with Single Expansion Cartridge</p> <p>220mm x 220mm x 53mm (8.69in x 8.66in x 2.08in)</p> <p>Weight: 2.64 Kg (5.8 Lbs.)</p>



XR80 Services and Support



AirLink Complete

Best-in-class support services covering AirLink XR80 devices. Includes:

- AirLink Management Service (ALMS) network management and optional ALMS Advanced Mobility Reporting (AMA)
- 24/7/365 Tier 1 technical support from wireless experts via phone or online access
- Extended hardware warranty – up to 5 years



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

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.

For more information, visit www.sierrawireless.com.