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	North America	Global	
CELLULAR			
Peak D/L			
Peak U/L	5G - Up to 660 Mbps UL, 4G LTE CAT 20 - 210 Mbps UL		
5G Frequency Bands	Sub-6 Non-standalone (NSA): n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79 Future Sub-6 Standalone (NSA & SA): n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79		
4G LTE Frequency Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43 (future), B46, CBRS B48, B66, B71		
3G WCDMA/HSPA+ Frequency Bands	B1, B2, B3, B4, B5, B6, B8, B9, B19		
LPWA Frequency Bands	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66		
APPROVALS Regulatory	FCC, IC, PTCRB, GCF, CE, RED, RCM		
Carrier	Verizon, AT&T, T-Mobile		
PART NUMBERS	Single 5G 1104785 Dual 5G 1104786 Optional 5G cartridge (future)	Single 5G 1104722 Dual 5G 1104723 Optional 5G cartridge (future)	

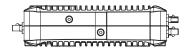
	Specification		
HOST INTERFACES	Single 5G: 4x RJ-45 Ethernet ports (1x5Gbps, 3x1Gbps)		
	Dual 5G: 5x RJ-45 Ethernet ports (1x5Gbps, 4x1Gbps)		
	LPWA ALMS Out-of-Band Management		
	USB 3.2 Type-C port		
	Dual RS-232 serial port on RJ-45 connector		
	Aux Port (GPIO/CAN)		
	Dual SIM Slots		
	Bluetooth (future)		
	Single 5G: 15x FAKRA antenna connectors (4x4 Cellular, Dual 4x4 Wi-Fi, GNSS, Bluetooth, 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	Dual independent 4x4 MIMO Wi-Fi 6 AP/STA up to 2.4Gbps		
	Support for 128 clients		
	WPA2/3 Enterprise		
	Each independently configurable as Wi-Fi WAN or Wi-Fi Access Point		
	High output power 23 dBm (per chain)		
	Captive Portal (future)		





	Specification		Specification
ENVIRONMENTAL	Operating Temperature: -30°C to +70°C / -22°F to +158°F Storage Temperature: -40°C to +85°C / -40°F to +185°F	INDUSTRY CERTIFICATIONS	Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950
	Humidity: 95% RH @ 60C		– Vehicle Usage: E-Mark (72/245/EEC, 2009/19/EC), ISO7637–
	IP64 rated ingress protection		2, SAE J1455 (Shock & Vibration)
	MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity		Environmental: RoHS2, REACH, WEEE
	· · · · · · · · · · · · · · · · · · ·		Rail Usage: EN50155 (Rolling Stock)
POWER	Input/Operating Voltage: 7 to 36 VDC Power modes: Dual 5G Peak 68W (5.7A @12V); Standby 55mW (4.5mA@12V)	RELIABILITY	MTBF: Dual 5G: 27.5 years (Telcordia SR-332 Issue3 Method1)
	Built-in protection against voltage transients including 5 VDC engine cranking	SUPPORT AND WARRANTY	3-year standard warranty; Optional 1/2-year warranty Extension
	Ignition Sense with time delay shutdown		Unrestricted critical firmware updates
NETWORK AND ROUTING	Sierra Cognitive Wireless IPv4 and IPv6 Routing	ACCESSORIES	In the box: XR90, DC Power cable, LPWA Antenna. XR90 Quick Start Guide, ALMS Quick Start Guide
	Network Address Translation (NAT)		Mounting bracket (6001350) AC Adapter (6001372)
	LAN Segmentation		I/O Cable (6001004)
	IPv4 Passthrough and IPv6 Prefix Extension WAN/LAN Connection Policy Management		Antennas (See sierrawireless.com)
	Policy-Based Routing		5G Expansion Cartridge (future)
	QoS: Application/ Traffic Priority Queuing WAN Monitors: Connection Failure Recovery Configurable MTU size	EDGE COMPUTING	Support for Edge Compute Containerized Applications (future) Azure IoT Integration (future)
	Multiple LAN Support	DIMENSIONS	AirLink XR90 – Main Body
	Customize transmission buffer size	SINCENSIONS	220mm x 170mm x 53mm (6.69in x 8.66in x 2.08in)
	Static Routing		Weight: 2.06 Kg (4.5 Lbs.)
	WAN Ethernet		
VPN	Integrated with ACM VPN Server		AirLink XR90 – Main body with Single Expansion Cartridge
	IPsec protocol with IKEv1/IKEv2		220mm x 220mm x 53mm (8.66in x 8.66in x 2.08in)
	FIPS 140-2		Weight: 2.64 Kg (5.8 Lbs.)
	Encryption: AES128/AES192/AES256 Hashing: SHA256/SHA384/SHA512 Key Exchange: DHGroup14/15/16/17/18/19/20/21		AirLink XR90 – Main body with Dual Expansion Cartridge 268mm x 220mm x 53mm (10.55in x 8.66in x 2.08in) Weight: 3.22 Kg (7.1 Lbs.)
	LAN to LAN and Host to LAN		
	Up to 10 concurrent tunnels per link		267.31
	MOBIKE protocol		
	IP compression Full/Split Tunnel		
	Dead Peer Detection (DPD)		
			CELL XP2 HOUNTING HOLES









XR90 Services and Support



AirLink Premium

AirLink Premium ensures your AirLink XR90 hardware operates at peak efficiency and is always accessible. With device management and robust mobility reporting combined with our best-in-class management service and technical support, this offering includes:

- AirLink Management Service (ALMS) network management
- 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



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



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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.

