SIERRA WIRELESS®

5G

AirLink® XR80

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

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, Wi-Fi 6 and 5Gbps Ethernet technology
- "Always-on" connectivity delivers consistent primary and backup connectivity for public and private networks using AirLink Cognitive Wireless
- Simplified set up and useability with new AirLink OS and upgraded AirLink Management Service (ALMS)
- New AirLink Premium with ALMS Out-of-Band Management provides zero-touch set up and reduced service calls
- Ready for your Edge computing workloads

XR80 Product Description

The supercharged AirLink XR80 is optimized for fixed and mobile applications. The available dual-5G cellular radio and 5X4 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.
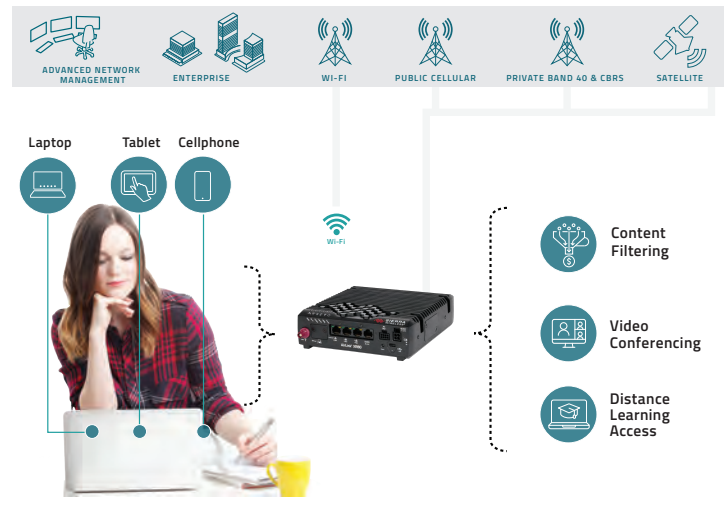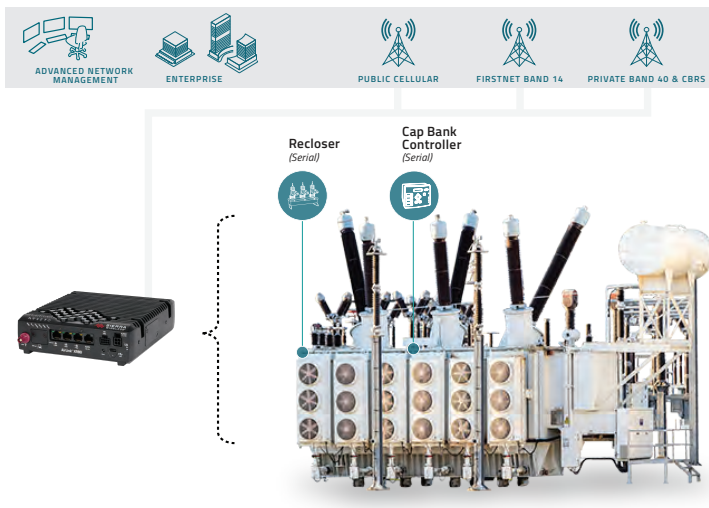
A Fully Integrated Solution

The AirLink XR80 is a fully-supported, out-of-the box solution complete with integrated device management and 24/7 technical support. AirLink Connection Manager delivers complete VPN security and our AirLink Professional Services maximizes your system performance and customer satisfaction.

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

XR80 APPLICATION EXAMPLES

ADVANCED NETWORK MANAGEMENT | ENTERPRISE | PUBLIC CELLULAR | FIRSTNET BAND 14 | PRIVATE BAND 40 & CBRS

Recloser *(Serial)* | Cap Bank Controller *(Serial)*

GRID

ADVANCED NETWORK MANAGEMENT | ENTERPRISE | WI-FI | PUBLIC CELLULAR | PRIVATE BAND 40 & CBRS | SATELLITE

Laptop | Tablet | Cellphone

Wi-Fi

Content Filtering

Video Conferencing

Distance Learning Access

CONNECTED DISTANCE LEARNING

AIRLINK XR80 – PERFORMANCE SERIES ROUTER

Top Features	Specifications
Cellular Connectivity Supported	5G – Up to 4.14 Gbps DL/660 Mbps UL 4G LTE-A Pro CAT20 – Up to 2 Gbps DL/210 Mbps UL Optional dual 5G cellular LPWA exclusively for ALMS Out-of-Band Management
Navigation	Assisted GNSS with inertial dead reckoning and integrated vehicle telemetry via ODBII/CAN
Wi-Fi	4x4 MIMO Wi-Fi 6 AP/STA up to 2.4Gbps 1x1 MIMO Wi-Fi 6 STA Support for 128 clients and WPA2/3Enterprise High output power 21 dBm (per chain) Non-Wi-Fi model available
Host Interfaces	All WAN/LAN interfaces use Sierra Cognitive Wireless and Data Path Acceleration Architecture Single 5G: 3x RJ-45 Ethernet ports (1x 5Gbps with PTP IEEE 1588, 2x 1Gbps) Dual 5G: 4x RJ-45 Ethernet ports (1x 5Gbpswith PTP IEEE 1588, 4x 1Gbps) Dual SIM Slots. Dual RS-232 serial on RJ-45 Aux Port (GPIO/CAN), USB 3.2 type-C port, Bluetooth (future support)
Security	All Sierra Wireless security features including secure boot and secure firmware update AAA: 802.1x/Radius authentication Stateful firewall with port forwarding and DMZ WPA2/3 Personal/Enterprise WLAN Encryption and FIPS 140-2
Construction	Aluminum die cast housing rated to IP64 and Mil-STD 810G
Industry Certifications	Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950 Vehicle Usage: E-Mark (72/245/EEC, 2009/19/EC), ISO7637-2, SAE J1455 (Shock & Vibration) Environmental: RoHS2, REACH, WEEE Rail Usage: EN50155 (Rolling Stock)
Dimensions	Single 5G: 170mm x 220mm x 53mm (6.69in x 8.66in x 2.08in) Dual 5G: 220mm x 220mm x 53mm (8.66in x 8.66in x 2.08in)

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 (AMR)
- 24/7/365 Tier 1 technical support from wireless experts via phone or online access
- Extended hardware warranty – up to 5 years

VPN: AirLink Connection Manager (ACM) is a mobile-optimized VPN solution that securely extends the enterprise network to the vehicle.

Professional Services: Full product life-cycle services including solution consulting and solution implementation services delivered by Sierra Wireless Network Engineers and Program Managers.

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