



AirLink® XR90

5G High-Performance Multi-Network Vehicle Router for Transit, Rail and First Responder Fleets.

Performance Series Routers



Benefits

- Designed for rugged mobile applications with Mil Standard aluminum die cast housing and adaptive power management
- Real-time connectivity with unmatched uplink and downlink speeds using Data Path Accelerated 5G, Wi-Fi 6 and 5Gbps Ethernet technology
- “Always-on” connectivity using available dual cellular and dual Wi-Fi radios, and automatic failover using AirLink Cognitive Wireless
- Simplified set up and usability 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

XR90 Product Description

The supercharged AirLink XR90 is purpose-built for public safety and transit with available dual-5G cellular radios and dual independent 4x4 MIMO Wi-Fi 6 antennas. It is the highest performing, most flexible router in the Sierra portfolio. It supports complete device-to-cloud security, reduces your total cost of ownership with ALMS Out-of-Band management, and with the cartridge-based design, enables long-term expandability and upgradability.

A Fully Integrated Solution

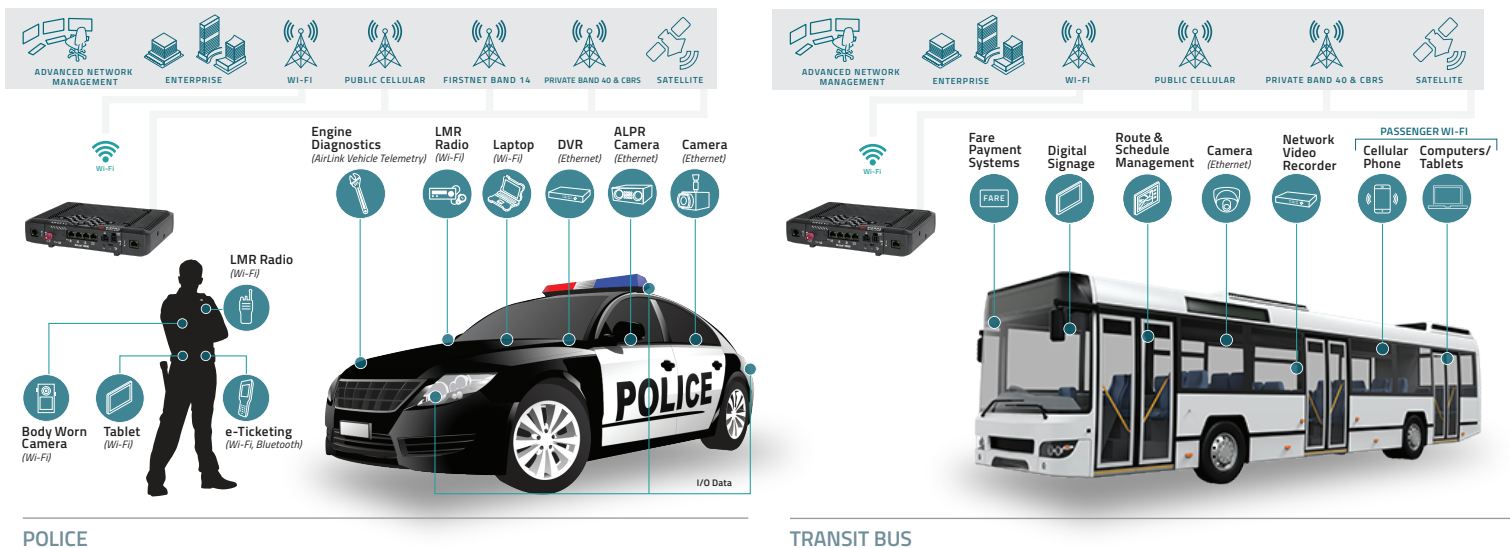
The AirLink XR90 is a fully-supported, out-of-the box solution complete with integrated device management, advanced mobility reporting and 24/7 technical support. AirLink Connection Manager delivers complete VPN security and our AirLink Professional Services maximizes your system performance and customer satisfaction.

Ideal Applications

Mobile mission critical applications in public safety, transit and field services. Delivers secure always-on Vehicle Area Networks (VANS) for:

- Buses/Transit
- Ambulance/EMS
- Law Enforcement
- Fire
- Utilities
- Private Networking

XR90 APPLICATION EXAMPLES



POLICE

TRANSIT BUS

AIRLINK XR90 – PERFORMANCE SERIES ROUTER

Top Features	Specifications
Cellular Connectivity Supported	5G – Up to 4.14 Gbps DL/660 Mbps UL 4G LTE CAT 20 – Up to 2 Gbps DL/210 Mbps UL Optional dual 5G cellular LPWA exclusively for ALMS Out-of-Band Management CBRS for Private Networks
Navigation	Assisted GNSS with inertial dead reckoning and integrated vehicle telemetry via ODBII/CAN
Wi-Fi	Dual independent 4x4 MIMO Wi-Fi 6 AP/STA up to 2.4Gbps Support for 128 clients and WPA2/3 Enterprise High output power 23 dBm (per chain)
Host Interfaces	All WAN/LAN interfaces use Sierra Cognitive Wireless and Data Path Acceleration Architecture Single 5G: 4x RJ-45 Ethernet ports (1x 5Gbps, 3x 1Gbps) Dual 5G: 5x RJ-45 Ethernet ports (1x 5Gbps, 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 (future support)
Construction	Aluminum die cast housing rated to IP64 and Mil-STD 810G
Industry Certifications	Safety: IECCE 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: 220mm x 220mm x 53mm (8.66in x 8.66in x 2.08in) Dual 5G: 268mm x 220mm x 53mm (10.55in x 8.66in x 2.08in)



XR90 Services and Support

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

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 Manage



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