

**NEW** – Meet the AirLink® XR60, the World's Smallest Rugged 5G Router – Now with 5-Year Warranty, **Learn more** → Support and Management. Limited-Time Offer!

# AirLink® XR60: World's Smallest Rugged 5G Router

The ultra-compact and highly ruggedized AirLink® XR60 delivers high performance 5G and Wi-Fi 6 connectivity to space-limited and harsh environments — from tight industrial enclosures to fast-moving vehicles.

With advanced networking capabilities, private network support and edge computing capabilities, the XR60 future proofs your connectivity and accelerates your digital transformation.

**NEW-GEN**



*\*Based on internal study of comparable IP64 rugged routers January 2024*

Dual-Band GNSS	5G
IP64 Rated	2x2 MIMO Wi-Fi 6 (Optional)
AirLink OS with AirLink Complete	Single Serial / Single Ethernet (1 Gbps) or Dual Ethernet (1 Gbps + 5 Gbps)



**For a limited time only, get 5 years of AirLink Complete with your new AirLink XR60 router:**

- ✓ 5-year hardware warranty
- ✓ 5 years of technical support
- ✓ 5 years of remote device management through ALMS

# AirLink® XR60 – Router Specifications

## KEY FEATURES

<b>Cellular Radios</b>	5G
<b>Wi-Fi</b>	2x2 MIMO Wi-Fi 6 (Optional)
<b>Ethernet</b>	1 x Ethernet RJ45 (1 Gbps) – Single Serial/Single Ethernet variant 2 x Ethernet RJ45 (1x1 Gbps + 1x5 Gbps) – Dual Ethernet variant
<b>Serial</b>	Dual RS-232/485 (Serial/Ethernet variant)
<b>GNSS</b>	Dual-band 48 Channel GNSS
<b>CAN</b>	–
<b>I/O</b>	1 GPIO
<b>USB</b>	USB 3.2 Gen 1 Type-C® with power delivery and 5 Gbps LAN networking
<b>Bluetooth</b>	–
<b>IP Rating</b>	Sealed Aluminum Housing (IP64 Rated)
<b>Services</b>	AirLink Complete (1 year included)
<b>Operating System</b>	AirLink OS
<b>Management System</b>	AirLink Management Service (ALMS)

## Region

**Global**

## CELLULAR

<b>Technology</b>	5G
<b>Peak Downlink (Theoretical)</b>	2800 Mbps
<b>Peak Uplink (Theoretical)</b>	300 Mbps
<b>Category</b>	5G
<b>Region</b>	Global
<b>Radio</b>	EM9291
<b>MIMO</b>	4x4
<b>RF Connectors</b>	SMA
<b>SIM</b>	Dual SIM (Nano-4FF)

**FREQUENCY BANDS**

	1	2	3	4	5	7	8	12	13	14	17	18	19	20	25	26	28	29	30
<b>5G</b>	n1	n2	n3	-	n5	n7	n8	n12	n13	n14	-	n18	-	n20	n25	n26	n28	n29	n30
<b>4G</b>	B1	B2	B3	B4	B5	B7	B8	B12	B13	B14	B17	B18	B19	B20	B25	B26	B28	B29	B30
<b>3G (HSPA+)</b>	B1	B2	-	B4	B5	-	B8	-	-	-	-	-	B19	-	-	-	-	-	-

**FREQUENCY BANDS**

	32	34	38	39	40	41	42	43	46	48	66	70	71	75	76	77	78	79
<b>5G</b>	-	-	n38	-	n40	n41	-	-	-	n48	n66	n70	n71	n75	n76	n77	n78	n79
<b>4G</b>	B32	B34	B38	B39	B40	B41	B42	B43	B46	B48	B66	-	B71	-	-	-	-	-
<b>3G (HSPA+)</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\*SA downlink only \*\*Downlink only

**WIRELESS CERTIFICATION**

<b>Regulatory</b>	FCC, IC/ISED, PTCRB, GCF, CE*, RED*, RCM
<b>Carrier</b>	AT&T, FirstNet® 4G Capable, T-Mobile, Verizon, CBRS, C-Band Planned: Rogers*, Telus*, Bell*, Telstra*
<b>Public Safety</b>	FirstNet® 4G Capable
<b>Part Numbers</b>	1105099 XR60 Dual Ethernet (1 Gbps + 5 Gbps) 1105159 XR60 Dual Ethernet (1 Gbps + 5 Gbps) with Wi-Fi 1105160 XR60 Single Serial, Single Ethernet (1 Gbps) 1105161 XR60 Single Serial, Single Ethernet (1 Gbps) with Wi-Fi

\*Pending. See latest status [here](#).

**WI-FI**

<b>Wi-Fi Standard</b>	Wi-Fi 6
<b>Access Point</b>	Dual (2.4 & 5GHz)
<b>Client (Depot/WAN)</b>	Yes
<b>Client &amp; AP</b>	Yes
<b>Peak Throughput (Theoretical)</b>	1200 Mbps
<b>MIMO</b>	Single 2x2
<b>Security</b>	WPA2/3 Personal WPA2/3 Transitional WPA2 Enterprise
<b>Clients</b>	Up to 32 maximum
<b>SSID</b>	3
<b>Output Power</b>	21 dBm per chain
<b>Frequency</b>	2.4/5 GHz
<b>RF Connectors</b>	SMA (Reverse Polarity)

**ENVIRONMENTAL**

<b>Operating Temperature</b>	-40°C to +70°C / -40°F to +158°F -30°C to +65°C / -22°F to +149°F (Wi-Fi variant)
<b>Storage Temperature</b>	-40°C to +85°C / -40°F to +185°F
<b>Humidity</b>	95% RH @ 60°C
<b>Military Specification</b>	MIL-STD-810H (Shock, Vibration, Thermal Shock, Humidity)
<b>IP Rating</b>	IP64

**INDUSTRY CERTIFICATIONS**

<b>Safety</b>	IECEE Certification Bodies Scheme (CB Scheme)
<b>Vehicle Usage</b>	E-Mark* (UN ECE Regulation 10.05), ISO7637-2, SAE J1455 (Shock, Vibration, Electrical)
<b>Environmental Directives</b>	RoHS2, REACH, WEEE, Prop 65
<b>Hazardous Environments</b>	Class 1 Div 2* – Ambient temperatures of -30°C to +60°C IECEX* & ATEX*
<b>Rail Usage</b>	EN50155/EN45545 (Rolling Stock)

\*Pending. See latest status [here](#).

**POWER**

<b>Input Voltage</b>	7 to 36 VDC Redundant power input via USB-C (45W)
<b>Power Consumption</b>	Idle Power: 3.5W (290 mA @ 12VDC) – Serial/Ethernet variant Standby Mode Power: 55 mW (4.6 mA @ 12 VDC) Triggered on low voltage, I/O or periodic timer
<b>Power Modes</b>	7 to 36 VDC: Low voltage disconnect to prevent battery drain Built-in protection against voltage transients including 5VDC engine cranking and +200 VDC load dump Ignition Sense with time delay shutdown Configurable features and ports to optimize power consumption  Can switch to redundant power input via USB-C (45W)

**SECURITY**

<b>AAA</b>	Wi-Fi 802.1x/Radius authentication
<b>Firewall</b>	Stateful firewall with port forwarding, DMZ
<b>WLAN Encryption</b>	WPA2/3 Personal WPA2/3 Transitional WPA2 Enterprise
<b>Firmware Update</b>	Secure Firmware Update

**NETWORK AND ROUTING**

<b>Throughput</b>	800 Mbps Firewall TCP throughput
<b>Features</b>	Semtech Cognitive Wireless IPv4 and IPv6 Routing Network Address Translation (NAT) Port Forwarding DHCP Server IP Passthrough LAN Segmentation IPv4 Passthrough and IPv6 Prefix Extension WAN/LAN Connection Policy Management Policy-Based Routing Configurable MTU size Static Routing WAN Ethernet
<b>QoS</b>	Application/Traffic Priority Queuing
<b>WAN Monitors</b>	Connection Failure Recovery
<b>LAN (ETHERNET/USB)</b>	USB to Ethernet

**VPN**

<b>Throughput</b>	175 Mbps IPsec VPN TCP throughput
<b>Features</b>	Integrated with ACM VPN Server IPsec protocol with IKEv1/IKEv2 FIPS 140-2 Level 1 compliant
<b>Encryption</b>	AES128/AES192/AES256
<b>Hashing</b>	SHA256/SHA384/SHA512
<b>Key Exchange</b>	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)

**ROUTER MANAGEMENT INTERFACES**

ALMS  
Local web user interface  
REST API (Beta) licensed via ALMS

**EDGE COMPUTING**

	Support for Edge Compute Docker Containerized Applications (Beta) licensed via ALMS
<b>RAM<sup>1,2</sup></b>	1.2 GB
<b>Storage (Flash)<sup>1</sup></b>	1.7 GB
<b>CPU</b>	Quad Core Arm A53 64 bit

<sup>1</sup> Approximation available to containers (not device total)

<sup>2</sup> Depends on other enabled features

**AIRLINK COMPLETE (1 YEAR INCLUDED WITH ROUTER PURCHASE)**

<b>Support</b>	24/7 technical support*
<b>Hardware Warranty</b>	1-year standard hardware warranty Extended hardware warranty up to 5 years with current subscription**
<b>Device Management</b>	AirLink Management Service (ALMS)*
<b>Software Updates</b>	Unrestricted critical firmware updates

\*With current AirLink Complete subscription

\*\*Full warranty terms are available at [www.sierrawireless.com/end-user-warranty](http://www.sierrawireless.com/end-user-warranty)

**AIRLINK PREMIUM (OPTIONAL UPGRADE)  
INCLUDES ALL AIRLINK COMPLETE FEATURES\* AND ADDS:**

<b>Advanced Mobility Reporting</b>	Coverage and fleet reporting*
<b>Advance Replacement</b>	Same-day shipping for in-warranty router replacements*

\*With current AirLink Premium subscription

## RELIABILITY

### MTBF

1105099 XR60 Dual Ethernet: 264010 hours (30.13 years)  
 1105159 XR60 Dual Ethernet, Wi-Fi: 245227 hours (27.99 years)  
 1105160 XR60 Serial, Ethernet: 283666 hours (32.38 years)  
 1105161 XR60 Serial, Ethernet, Wi-Fi: 262094 hours (29.91 years)

\*Ground Benign, 25°C

\*MTBF calculations performed per Telcordia "Reliability Prediction Procedure for Electronic Equipment" document number SR-332, Method I, Issue 3

## ACCESSORIES

### In The Box

XR60, DC Power Cable, Quick Start Guide, AirLink Complete Leaflet

### Other Accessories (sold separately)

6001503 AC Adapter  
 6001502 Spare DC Power Cable  
 6001529 DIN Rail Bracket  
 6001410 RJ45 to Single DB9  
 6001409 RJ45 to Dual DB9  
 For Antenna options visit: [here](#)

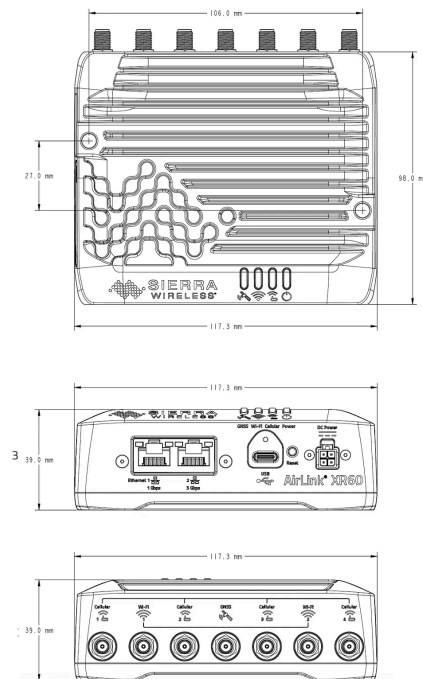
## DIMENSIONS

### Size

118 x 39 x 98 mm (108 mm including SMA connectors)  
 4.6 x 1.5 x 3.9 in (4.2 in including SMA connectors)  
 Same bolt pattern as RV

### Weight

522 g / 1.15 lb with Wi-Fi



\*For carrier specific band support please refer to the hardware user guide.