

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

AirLink® MG90 5G

High Performance Multi-Network 5G/ Wi-Fi 5 Router

The AirLink® MG90 is purpose built for transit, rail and first responders with dual-Cellular radios and dual Gigabit Wi-Fi delivering always-on connectivity with extensions to Land Mobile Radio (LMR) and satellite systems.

Single Serial	Dual 5G or Dual 4G
GNSS with Dead Reckoning	Dual 3x3 MIMO Wi-Fi 5
IP64 Rated	5x Ethernet (1 Gbps)
MGOS with AirLink Support	



AirLink® MG90 – Router Specifications

KEY FEATURES	MG90 5G 4x4 Global MG90 DUAL 5G 2x2 Global	MG90 LTE-A Pro NAM MG90 DUAL LTE-A Pro NAM	MG90 LTE-A Pro Global MG90 DUAL LTE-A Pro Global
Cellular Radios	5G	LTE-A Pro	LTE-A Pro
Wi-Fi	Dual 3x3 Wi-Fi 5	Dual 3x3 Wi-Fi 5	Dual 3x3 Wi-Fi 5
Ethernet	5x Gigabit Ethernet Port (RJ45)	5x Gigabit Ethernet Port (RJ45)	5x Gigabit Ethernet Port (RJ45)
Serial	Single RS-232 serial port (DB9)	Single RS-232 serial port (DB9)	Single RS-232 serial port (DB9)
GNSS	48 Channel GNSS with Dead Reckoning	48 Channel GNSS with Dead Reckoning	48 Channel GNSS with Dead Reckoning
CAN	CAN bus/OBD-II (J1939/J1708) (optional cable)	CAN bus/OBD-II (J1939/J1708) (optional cable)	CAN bus/OBD-II (J1939/J1708) (optional cable)
I/O	5 GPIO	5 GPIO	5 GPIO
USB	Dual USB 3.0 type-A ports	Dual USB 3.0 type-A ports	Dual USB 3.0 type-A ports
Bluetooth	Bluetooth 2.1	Bluetooth 2.1	Bluetooth 2.1
IP Rating	Sealed Aluminum Housing (IP64 Rated)	Sealed Aluminum Housing (IP64 Rated)	Sealed Aluminum Housing (IP64 Rated)
Services	AirLink Support	AirLink Support	AirLink Support
Operating System	MG OS	MG OS	MG OS
Management System	AirLink® Mobility Manager	AirLink® Mobility Manager	AirLink® Mobility Manager
Region	Global	North America	Global

CELLULAR

Technology	5G	LTE-A Pro	LTE-A Pro
Peak Downlink (Theoretical)	4.14 Gbps	600 Mbps	600 Mbps
Peak Uplink (Theoretical)	660 Mbps	150 Mbps	150 Mbps
Category	5G	Cat-12	Cat-12
Region	Global	North America	Global
Radio	EM9190	EM7511	EM7565
MIMO	4x4 or Dual 2x2	4x4 or Dual 2x2	4x4 or Dual 2x2
RF Connectors	SMA	SMA	SMA
SIM	Quad SIM (Mini-2FF)	Quad SIM (Mini-2FF)	Quad SIM (Mini-2FF)

FREQUENCY BANDS

5G Bands	n1, n2, n3, n5, n28, n41 (4x4 only), n66, n71	–	–
4G LTE 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, B46, B48, B66, B71	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42, B43, B46, B48, B66	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, B48, B66
3G HSPA+ Bands	B1, B2, B4, B5, B6, B8, B9, B19	B1, B2, B4, B5, B6, B8, B9, B19	B1, B2, B4, B5, B6, B8, B9, B19
2G GPRS Bands	–	–	–
LPWA	–	–	–

WIRELESS CERTIFICATION

Regulatory	FCC, IC, PTCRB, GCF, CE, RED, RCM	FCC, IC, PTCRB, GCF	CE, RED, RCM
Carrier	AT&T, T-Mobile, Verizon (4G only), US Cellular, CBRS	AT&T, FirstNet, Verizon, T-Mobile, US Cellular, Telus, Rogers	–
Public Safety	FirstNet® 4G, ESN	FirstNet®	–
Part Numbers	1104708 Single 4x4 1104709 Dual 2x2	1103981 Single 1103982 Dual	1103980 Single 1103983 Dual

WI-FI

Wi-Fi Standard	Wi-Fi 5 802.11ac
Access Point	Dual
Client (Depot/WAN)	Yes
Client & AP	Yes
Peak Throughput (Theoretical)	1300 Mbps
MIMO	Dual 3x3
Security	WPA2 Enterprise
Clients	128
SSID	4 per radio
Output Power	21 dBm per chain
Frequency	2.4/5 GHz
RF Connectors	SMA (Reverse Polarity)

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
Humidity	95% RH @ 60°C
Military Specification	MIL-STD-810G (Shock, Vibration, Thermal Shock, Humidity)
IP Rating	IP64

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, Electrical)
Environmental Directives	RoHS2, REACH, WEEE
Hazardous Environments	–
Rail Usage	EN50155/EN45545 (Rolling Stock)

POWER

Input Voltage	7 to 36 VDC
Power Consumption	Peak 30W (2.5A @12V); Standby 135mW (11mA@12V)
Power Modes	Built-in protection against voltage transients including 5 VDC engine cranking and +200 VDC load dump Ignition Sense with time delay shutdown

SECURITY

AAA	802.1x /Radius authentication with Wi-Fi and Ethernet
Firewall	Stateful firewall with port forwarding
WLAN Encryption	WPA2/WPA3 Personal/Enterprise FIPS 140-2
Firmware Update	Secure Firmware Update

NETWORK AND ROUTING

Cognitive Wireless
 IPv4 Routing
 Network Address Translation (NAT)
 Port Forwarding
 DHCP Server
 LAN Segmentation
 WAN/LAN Connection Policy Management
 Policy-Based Routing
 Configurable MTU size
 Static Routing
 WAN Ethernet

QoS Application/Traffic Priority Queuing
 Load Balancing Over Multiple WAN Links

WAN Monitors Connection Failure Recovery

LAN (ETHERNET/USB)

USB to Serial

VPN

Integrated with ACM VPN Server
 IPsec protocol with IKEv1/IKEv2
 FIPS 140-2 Level 1 compliant

Encryption 3DES/AES128/AES256

Hashing MD5/SHA1/SHA256/SHA512

Key Exchange DHGroup2/5/14/15/16/17

Support 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

AM/AMM
 Local web user interface

EDGE COMPUTING

RAM^{1,2}	–
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Storage (Flash)¹	–
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CPU	–
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¹ Approximation available to containers (not device total)

² Depends on other enabled features

AIRLINK SERVICES

Services	AirLink Support
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Support	24/7
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Warranty	3 year standard warranty with up to 5 years extended warranty with current AirLink Support subscription
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Device Management	AirLink® Manager (AM) or AirLink® Mobility Manager (AMM)
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Software Updates	Unrestricted critical firmware updates
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RELIABILITY

MTBF	23.22 years Telcordia SR-332 Issue 3 Method 1
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ACCESSORIES

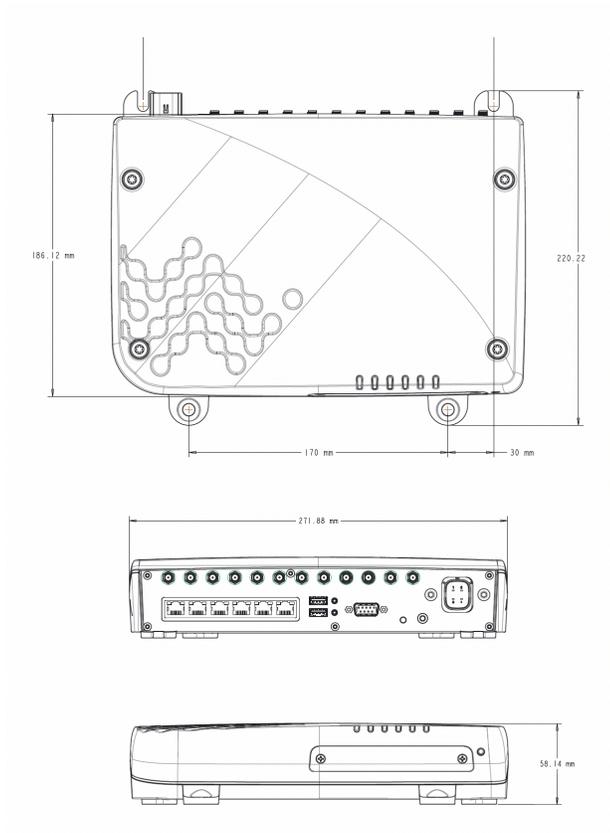
In The Box	MG90, DC Power Cable, Quick Start Guide and SMA Wrench
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Other Accessories (sold separately)	6001024 Mounting Bracket 6001023 AC Adapter 6001095 I/O Cable For Antenna options visit: here
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DIMENSIONS

Size	272mm x 220mm x 60mm
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Weight	2.40 Kg
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**For carrier specific band support please refer to the hardware user guide.*