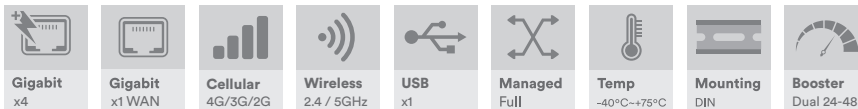


# AMG750 SERIES INDUSTRIAL GRADE 4G/LTE ROUTER WITH WIFI & POE



## Industrial Ethernet Solutions

AMG's 750 series 4G/LTE routers provide industrial cellular remote connectivity with dual SIM fail-over or WAN load balancing along with 2.4/5GHz wireless and 4 Gigabit Ethernet ports with IEEE 802.3at PoE.



[ AMG750 Series ]

### / OVERVIEW

The AMG750 series Industrial Cellular Managed Router provides 5 x Gigabit Ethernet ports. 1 x Gigabit Ethernet port provides a configurable WAN connection while 4 x Gigabit Ethernet ports provide connection for remote devices and feature IEEE 802.3at 30W PoE+ support.

An integrated dual SIM 4G/LTE Cat4 modem provides connection in remote deployment scenarios where a wired connection is not available and combined with the wired WAN port can also act in fail-over or load balancing modes.

A dual band 2.4/5GHz wireless connection is also provided for local wifi access and supports 802.11 a/b/g/n/ac as well as a USB port supporting device logging functions. An RS232 or RS485 channel is provided to allow legacy serial data equipment to be connected at remote locations as well as a digital input and relay output for device monitoring and control applications.

Dual power supply inputs are provided for the highest levels of system operation with a wide input range of 24-56 VDC supported. Fully integrated voltage boosting technology ensures that reliable PoE can be supplied to all 4 Ethernet ports even when being powered by 24 VDC sources.

### / FEATURES

- 2G/3G/4G/LTE Cat4 Cellular modem with Dual SIM card and fail-over support
- Gigabit Ethernet WAN port supports load balancing or fail-over applications
- 4 x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 2.4/5GHz Dual Band WiFi Radio 802.11 a/b/g/n/ac
- Dual Power Inputs with 24-56 VDC support including voltage booster technology
- RS232/485 serial data channel for legacy equipment
- USB port supports remote data logging
- Layer 3 support including static and dynamic routing RIP v1/v2, OSPF, BGP
- VPN tunneling supports IPsec, Open VPN, PPTP, L2TP and GRE with up to 16 independent tunnels
- Rugged DIN rail mount housing
- AMG Lifetime Support Warranty

# Specifications.

## Standards & Protocols.

IEEE802.3i	10BaseT
IEEE802.3u	100BaseTX
IEEE802.3ab	1000BaseT
IEEE802.3x	Flow Control
IEEE802.1p	QoS Priority Marking
IEEE802.1Q	VLANs
IEEE802.1x	Port Security
IEEE802.3af/at	Power over Ethernet (PoE) 15/30W
RFC1112	IGMP v1
RFC2236	IGMP v2
RFC2030	Simple Network Time Protocol
RFC2131/3736	Dynamic Host Configuration Protocol (client/server - IPv4)
IEEE802.11a	2.4GHz Wireless
IEEE802.11b	2.4GHz Wireless
IEEE802.11g	2.4GHz Wireless
IEEE802.11n	2.4/5GHz Wireless
IEEE802.11ac	5GHz Wireless

Other	Static Route, RIP v1/v2, OSPF, BGP, IPv4, IPv6 Dual Stack, Static IPv6, DHCPv6, PPPoEv6 NAT 1-1, 1-many, Transversal, DMZ, Virtual Server & Computer, VPN Pass-through SNMP v1, v2c, v3, TR-069
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Jumbo Frames	9.6Kbytes
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## Interface.

LED Indicators	Power 1, Power 2, PoE Ports 1-4, SIM A/B & Signal Strength, WiFi, LAN/WAN Link Activity, Serial, Status
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RJ45 Ports	1x 10/100/1000BASE-T(X) WAN 4x 10/100/1000BASE-T(X) LAN with Auto MDI/MDI-X
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Cellular Antenna	2x SMA (female)
WiFi Antenna	2x SMA (male)

SIM Card A/B	Full Size SIM Card Tray
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USB Ports	1x Type A
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Serial	4-way Screw Terminal
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Power/DI/DO	8-way Screw Terminal
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## WAN & Uplink.

WAN	Cellular, Ether-WAN, Failover, Load Balance
Cellular	3GPP, 2G/3G/4G IP Pass-through, IPv4/6
Cellular Speed	Category 4 150Mb Down / 50Mb Up Max
Ether-WAN	Dynamic IP, Static IP, PPPoE, PPTP, L2TP
Network Monitor	ICMP/DNS Query

## WiFi.

Mode	AP Router, WDS Only, WDS Hybrid Modes
Functions	Multi-SSID, WMM
Security	WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x

## Field Communications.

Virtual COM	RFC2217, TCP Client, TCP Server, UDP
Modbus	Gateway for Modbus TCP/RTU/ASCII Master/Slave Access; Slave for Device Status/Information Access
Data Logging	Sniffer, Off-Line / Full-Time Proxy, Mixed Modes
I/O	1x Digital Input (Logic 0: 0~2V, Logic 1: 5~30V) 1x Relay Output (30V @ 1A)

## Object.

Scheduling Grouping Ext. Server	Time Schedule List Host Grouping List Email, Syslog, RADIUS, SCEP, FTP, DDNS, IGMP
Certificate	My Certificate, Trusted Certificate, Issue Certificate

## Service.

Cellular Toolkit	Data Usage, SMS, SIM PIN, USSD, Network Scan
Event Handling	User Defined Manage/Notify Event; Action & Trigger by SMS, Mail, Syslog, SNMP

# Specifications.

<b>Security.</b>		<b>Mechanical.</b>	
VPN Tunneling	IPsec (IKE or X.509 Pre-Shared Key), Open VPN, PPTP, L2TP, GRE	Housing Dimensions	Metal (W x D x H) 62 x 125 x 160 mm 2.44 x 4.92 x 6.30 in
Scenario	Site/Host to Site/Host, Hub & Spoke, Dynamic VPN	IP Rating	IP40
VPN Capability	IPsec: up to 16 Tunnels	Installation	Wall Mount or DIN Mount
Firewall	SPI Firewall with Stealth Mode, IPS	Weight	1.2kg / 2.65lb
Access Control	Packet Filter, URL Blocking, MAC Filter		
<b>Administration.</b>		<b>Environmental.</b>	
Configuration	Web GUI, CLI, Command Script, Password Authentication	Operating Temp.	-40°C to 75°C
Management System	SNMPv3 Std & AMG MIB, TR069 Upgrade, Backup & Restore, Reboot on Fault (Kernel Watchdog), Reboot on Schedule, Reset, Syslog	Storage Temp.	-40°C to 85°C
FTP	FTP Server, User Account	Humidity	10% to 95% (non-condensing)
Diagnostic PoE	Packet Analyser, Diagnostic Tools	MTBF	198,062 Hours
	Power Control, Manual On/Off, Schedule On/Off, Alive Check	MTBF Standard	Telcordia SR-332 GB 70°C
<b>Power.</b>		<b>Regulatory.</b>	
Input	Dual 24-56V <sub>DC</sub> with PoE Voltage Booster	Electrical Safety Immunity	CE/EN60950-1 EN55032: 2015 +AC: 2016 B EN55024
Consumption	15.6W Max (Excluding PoE) 135.6W Max (Including PoE)	Emissions	EN61000 FCC Part 15
		Radio	EN 301 489 EN 300 328 EN 301 893 EN50385
		Environmental	Reach, RoHS, WEEE

## Part Numbers.

### 4G Industrial Cellular Routers

AMG750-1G-4GAT-1E4-P120	4G Router (EU), 5 x 10/100/1000BaseT(x) RJ45 (4 x PoE), WiFi, RS232/485, Dual-SIM
AMG750-1G-4GAT-1U4-P120	4G Router (USA), 5 x 10/100/1000BaseT(x) RJ45 (4 x PoE), WiFi, RS232/485, Dual-SIM
AMG750-1G-4GAT-1A4-P120	4G Router (AUS), 5 x 10/100/1000BaseT(x) RJ45 (4 x PoE), WiFi, RS232/485, Dual-SIM

## Recommended PSU's.

AMGPSU-I48L-P120	DIN-Rail Mounting Light Industrial Grade PSU, -20 to +60°C, 48-55VDC, 120W
AMGPSU-I48-P120	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 47-53VDC, 120W
AMGPSU-I48-P240	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-53VDC, 240W

## Notes.

Included Accessories	DIN Rail Bracket, Ethernet Cable, Direct Attach 4G/LTE & 2.4/5GHz WiFi Antennas
Optional Accessories	External 4G/LTE & WiFi Antennas

*In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit [www.amgsystems.com](http://www.amgsystems.com) for the latest product specifications.*