

AMG840-6N-4XS SERIES NETWORK SERVER APPLIANCE



Commercial Server Solutions

AMG's network server appliance provides an ideal platform for the AMG Net-Hawk monitoring software. Featuring dual redundant AC inputs and support for multiple 1/2.5/10Gb Ethernet interfaces running on the latest Intel® Core processors.



1/2.5 Gb x6	1/10 Gb x4	HDMI x1 4K60Hz	USB 3.2 x4	USB 2.0 x2	Contacts 1x PSU Fail	Temp 0 ~ +50°C	Mounting Rack	PSU x2 Dual	Input IEC C14	NDAA/TAA Compliant

[AMG840-6N-4XS-RP]

OVERVIEW

AMG840 series network server appliances are designed for 19inch rack mounting in a wide range of 19inch cabinets using the sold separate rack or rail mounting kits and are ideally suited for providing multiple high speed network interfaces in an Intel based platform to support Windows or Linux operating systems. Dual redundant user replaceable hot swappable power supplies provide redundancy in the event of a single psu failure.

The AMG840 series have been purpose built to support the AMG Net-Hawk network monitoring platform and are available in multiple pre-configured versions with all the necessary hardware and software pre-installed to enable an easy and rapid deployment of AMG's most sophisticated network management software.

The AMG840 series is also available in a bare bones configuration without any CPU, memory, storage or operating system allowing the user complete flexibility to select their own application specific hardware. A full package of drivers are available for multiple Windows and Linux operating systems offering a wide range of potential use cases for the network server appliance.

19inch mounting hardware must be purchased separately.

FEATURES

- 19inch 1U rack mount, supports rack depths from 600 to 1200mm using the appropriate AMG rack or rail mount accessory kits
- 0°C to +50°C temperature for commercial grade applications
- Dual redundant user replaceable hot swappable 90-264VAC mains power inputs
- Purpose built to support the AMG Net-Hawk network monitoring platform
- Supports Intel 12th and 13th generation i3/i5/i7/i9 and Celeron processors
- DDR4 SO-DIMM memory up to 64Gb
- 6x 2.5Gb RJ45 ports and 4x 10Gb SFP+ ports support multiple high-speed network interfaces
- Supports Windows and Linux operating systems
- Designed in the USA & UK. Manufactured in the UK
- AMG 1 Year Support Warranty* (*optional services available)

Specifications.

Hardware Features.

CPU	LGA1700 Intel 12th & 13th Gen i3 / i5 / i7 / i9 Processors
Heatsink	Vapour Chamber, 180W TDP 60mm PWM Cooler
Chipset	Intel H670
RAM	2x DDR4 SO-DIMM 260 Socket Supports Max 64Gb
Storage Expansion	4x SATA3.0 (Supports RAID 0/1/5/10) 1x M.2 M-Key 2280 (NVMe PCIe 3.0 x4) 1x CF Card Interface (Replaces 1x SATA3.0) 1x M.2 E-Key (PCIe 3.0/2.0 Supports WiFi/BLE) 1x M.2 B-Key (USB 3.0/2.0 Supports 4G/5G) 1x Micro SIM Card Slot
OS Supported	Windows 11 Windows Server 2019/2021/2025 Linux

Interface.

LED Indicators	Power HDD/SSD PSU Ok PSU Fault RJ45 Link & Activity SFP+ Link & Speed
RJ45 Ports	6x 100/1000/2.5G RJ45 Intel i226 Chipset
SFP Slot	4x 1000/10G Base-R SFP+ Intel XL710-BM2 Chipset
Serial Console	RJ45
USB	4x USB3.2 Type A 2x USB2.0 Type A
Display	1x HDMI 2.0 (4096x2160 @ 60Hz)
AC Power	2x IEC C14 Socket
PSU Fault Relay	2-way Screw Terminal Form A 60V @ 2A Max
Antenna	6x SMA Holes (Antenna Cables Not Included)

Power.

Power Inputs	2 (Dual Redundant / Hot Swappable)
Input Voltage	90-264V _{AC}
Input Frequency	47-63 Hz
Input Current	6A (115V _{AC}) / 3A (230V _{AC})
Power Consumption	300W Max (Hardware Dependant)
Protection	Short Circuit, Overload Current Under Voltage, Over Voltage Temperature

Packaging.

Shipping Weight	8.50kg / 18.74lb
Dimensions	(W x D x H) 620 × 585 × 130 mm 24.41 × 23.03 × 5.12 in

Mechanical.

Housing	Metal
Dimensions:	(W x D x H)
(Excluding 19inch Handles)	430 × 478 × 44 mm 16.93 × 18.82 × 1.73 in
(Including 19inch Handles)	478 × 502 × 44 mm 18.82 × 19.76 × 1.73 in
IP Rating	IP20
Installation	19inch Rack (1U) 600mm Cabinet 800-1200mm Cabinets
Weight	7.10kg / 15.65lb

Environmental.

Operating Temp.	0 to +50°C / 32 to +122°F
Storage Temp.	-20 to +80°C / -4 to +176°F
Humidity	5% to 90% (non-condensing)
MTBF	>100,000 hours
MTBF Standard	Telcordia SR-332 GB 25°C
Heat Dissipation	1024 BTU/h Max
Cooling	1 x CPU Fan (Temp Controlled) 2 x PSU Fans (Temp Controlled) 2 x System Fans
Airflow	Front to Back
Noise Level	64 dBA (Under Typical Load) 72 dBA (Under Max Load)

Regulatory.

Safety	IEC/EN 62368-1
EMI	EN 55032 EN 55035 CISPR 32 FCC Part 15B EN 61000-3-2 EN 61000-3-3
EMS	EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)
Environmental	Reach, RoHS, WEEE
Supply Chain	NDAA & TAA Compliant

Part Numbers.

Commercial Network Server Appliance

AMG840-6N-4XS-RP-00*	Network Appliance Bare Bones Model - No Processor, RAM, SSD, Operating System
AMG840-6N-4XS-RP-01*^	Network Appliance Net-Hawk Model - Intel Core i5-14400 2.5GHz, 64Gb DDR4 RAM, 512GB SSD RAID 0, Windows Server 2025 Eval, Net-Hawk Software Installed (Unlicensed)

* Other models are available with multiple options for processor, RAM, SSD etc. (contact your AMG sales representative to discuss your requirements)
^ Windows Server 2025 is pre-installed as an unlicensed evaluation version. The user is responsible for correctly licensing this software from Microsoft. AMG Net-Hawk monitoring software is pre-installed as an unlicensed version. Net-Hawk licenses should be ordered separately from AMG.

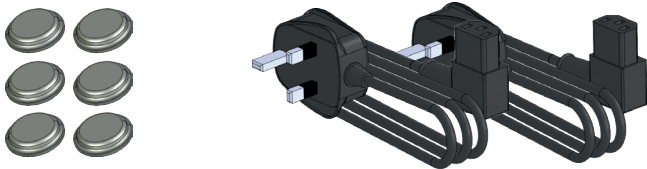
Note: For 19inch rack mounting one of the below recommended 1U 19inch accessory mounting kits is required and must be ordered separately.

Contact you local AMG sales representative to discuss additional warranty and service options available for the AMG840 series.

Included Accessories.

Adhesive Rubber Feet
Mains IEC Cable

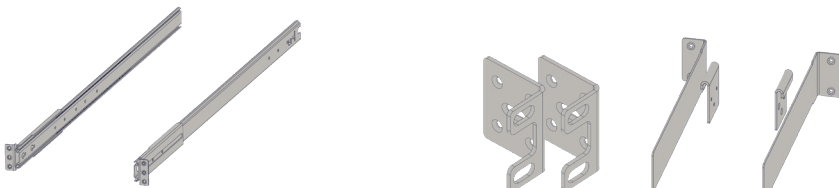
6x Grey Rubber Adhesive Feet For Desktop Mouting AMG840 Series Products
2x Region Specific UK/EU/US/AUS IEC Line Cords



Recommended Accessories.

AMGMNT-RAILS-01
AMGMNT-RACK-01

1U 19inch Mounting Sliding Rail Kit With Fixings For AMG840 Series, Supports 19inch Cabinet Depths Of 800-1200mm
1U 19inch Mounting Brackets & Rear Supports For AMG840 Series, Compatible With 19inch Cabinet Depth Of 600mm



AMGMNT-RAILS-01

AMGMNT-RACK-01