

### Quality Assured

AMG is an ISO9001 Certified Manufacturer. AMG Products are built in our AMG-owned facilities in the UK. AMG Engineering is in the UK and USA. Our streamlined manufacturing processes allow AMG to be extremely cost-efficient, delivering a quality product at a cost-effective price level. Plus, AMG products are NDAA/TAA Compliant and can be used in federal, state, and local government projects.

### The Broadest Line of Transmission Products

Fiber Optic, Copper and Wireless Ethernet. Legacy and the latest high-definition Fiber Optic Video, and Data. AMG offers the most comprehensive line of products designed to solve all your transmission challenges. Choose AMG Products today and you'll guarantee the performance of your network tomorrow.

### Systems Design, Application Center & Professional Services

AMG Design Center with application engineers in the US and UK, offering free technical pre-sale support for all fiber optic and Ethernet network system design challenges. AMG offers support worldwide to make solving your signal transmission challenges easy. As a UK designer and manufacturer of industrial network transmission products, we are in a unique position to support system design and professional services, using decades of experience gained over thousands of projects.

AMG dedicated network engineers will work side by side with your design team to build a picture of the consultants' specifications and the end-user requirements. AMG gives you tools for the A&E community that includes 3d modeling, AutoCAD, and datasheets are readily available at [www.amgsystems.com](http://www.amgsystems.com)

Full analysis of existing infrastructure, cameras, systems being transmitted, and topology, will be discussed to ensure the risks associated with networking are mitigated, giving full confidence.

Schematics and product datasheets will be given, with an appropriate technical narrative to support your tender applications. Optional hardware pre-staging, configuration along with documentation, and commissioning of in-house design are available within our Professional Services.

### Customer-Care – Delighting the Customer

AMG Customer Care is here to provide solutions. Staffed by experienced, knowledgeable, courteous representatives, the AMG Customer Care team is there to help. Courteous Customer Care representatives are here to answer your questions concerning pricing, product availability, order status, shipping dates, returns, warranty claims and so much more.

### Product Training and Education

AMG offers a full curriculum of fiber optic and Ethernet product training designed to help you make the right choices when selecting the right transmission products. Available online or in-person, AMG offers a full range of "how-to" guides and product demo videos on our website and can provide one-on-one or group training to your team.

### Lifetime Warranty

We're so confident in the long-term reliability of our products, we back them with a no-questions-asked Lifetime Warranty across our industrial product line. But what does a lifetime support warranty mean in the simplest terms? AMG will provide warranty service for industrial products purchased for the life cycle of the product plus 5 years after the date of discontinuation. AMG will also support a system of any age with free estimates of repair costs for out-of-warranty products, along with our technical team's enthusiasm to answer any support questions.

**Connect.** AMG – Connect. All devices on your network are seamlessly integrated with best-in-class transmission solutions over Optical Fiber, UTP, COAX and Wireless.

**Power.** AMG – Power. IEEE 802.3bt 90W Capabilities for your latest Cameras, Intrusion, Access Control, VoIP, or Industrial Control. Low Voltage 12-24VDC Options with PoE for Legacy Applications or Solar.

**Protect.** AMG – Protect. CyberSecure. Ruggedized, MTBF 900,000 hours+, ISO9001 Assured Quality, Lifetime Warranty, NDAA/TAA compliant. Protecting your assets and safety in Mission Critical Environments.

### AMG – An International Company Supporting You Locally

AMG is your source for Ethernet and legacy communication network solutions worldwide. AMG is in the USA and UK, with offices and product distribution locations throughout the world. This means to an AMG customer that the solutions and support you need are close and available when you need it.

AMG products are critical components in some of the highest-profile projects worldwide. Wherever you go in the world, AMG transmission products are in use providing critical data transmission for Security, Transportation and Infrastructure.

#### Projects

- Cairo Oil Refining Company, Cairo, Egypt
- Austrian Roads and Tunnels ITS Projects, Throughout Austria
- Scottish Southern and Electrical (SSE), UK
- HMP Prison System, Locations throughout UK
- Kai Tak Cruise Terminal, Hong Kong
- Lusail Stadium (World Cup), Qatar
- King Abdul Aziz International Airport, Saudi Arabia
- City of Waco Texas, USA
- London Underground and National Rail Stations, UK

For complete product information, current AMG events, product training, and more, visit AMG at:

[amgsystems.com](http://amgsystems.com)

Email: [sales@amgsystems.com](mailto:sales@amgsystems.com)

### FIBER OPTIC, WIRELESS AND COPPER TRANSMISSION SOLUTIONS

Ethernet / Video / Data / Contact Closure

**Connect. Power. Protect.**

# AMG

S Y S T E M S



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## Fiber Optic, Copper and Wireless Transmission Solutions

### AMG Ethernet Transmission Products

### Electrical to Optical Media Converters

### Unmanaged Ethernet Switches

### Managed Ethernet Switches

### Ethernet over Copper Coaxial Cable or Twisted Pair

### Wireless Ethernet

### Power over Ethernet (PoE)

AMG sets the new standard by offering robust ISO9001 quality ethernet transmission equipment backed by an unsurpassed level of support that comes standard with every product we sell. Our innovative equipment is very easy to install and operate and with the AMG Technical Support Team available when you need them, any challenge you may be facing is easily overcome.

AMG Ethernet products are engineered from the start to meet virtually any high bandwidth demand your network might require. Available in both hardened and cost-effective commercial versions, AMG Ethernet products are ideal for every edge application.

In addition, the extra features such as IEEE-compliant PoE and integrated SFP ports ensure interoperability with other devices, and easy to comprehend browser-based interface ensures easy setup and monitoring of your network.

## AMG Media Converters

AMG's Media Converters provide 100Mb, 1Gb or 10Gb Ethernet connectivity over fiber optic cables through SFP ports. AMG media converters are available as commercial or industrial models and are offered as single, dual, and four-channel models. AMG sets the standard for PoE, with IEEE802.3at and bt models offering 30, 60, and 90-watt options. These units are designed in the UK & US and manufactured in the UK with a lifetime warranty.

AMG offers media converters for all applications. AMG manufactures the smallest 90-watt industrial-grade media converter currently available. The AMG260M offers distances up to 250M within the Copper TX port natively, 100/1000FX over Fiber, Smart PoE Management at the edge, and PD power capability.



## AMG Unmanaged Switches

The AMG Series of Industrial 4, 5, 6, and 8 port Unmanaged Switches support 100Mbps and 1Gbps Ethernet in multiple combinations of RJ45 TX Ports and SFP ports. AMG offers SFP modules for multimode/single-mode optical fiber, distance, and connectors. The AMG Unmanaged Switch Series offers multiple PoE options with many models supporting optional IEEE802.3at 30W and 802.3bt 60/90W PoE. All are ISO9001 certified and are backed with a lifetime warranty.

The AMG350-4GAT-1G-P75-PD Industrial 5 Port Unmanaged PoE Switch with 802.3bt 90W PD PoE Input, provides IEEE802.3at PoE power to the 4 TX ports.



## Managed Ethernet Switches

The AMG Managed Switch product lines support 100Mb, 1Gb, 2.5Gb, and 10Gb Ethernet in multiple combinations of RJ45 TX Ports and SFP/SFP+ ports with many models supporting optional IEEE802.3at 30W or IEEE802.3bt 60/90W PoE. Two series are available.

### Industrial Series

The Industrial series of USA/UK-designed, UK-made Industrial Gigabit Ethernet switches are available in models from 6 to 24 ports.

- The 6-port models have four 10/100/1000Mbps TX ports and two 100Mbps/1Gbps/2.5Gbps FX SFP ports.
- The 11-port models have eight 10/100/1000Mbps TX ports and three 100Mbps/1Gbps/2.5Gbps FX SFP ports.
- The 12-24 port models have eight to sixteen 10/100/1000Mbps TX ports, two to six 100Mbps/1Gbps FX SFP ports, and two 100Mbps/1Gbps/2.5Gbps FX SFP ports.

PoE Models provide IEEE802.3at 30W or 802.3bt 60/90W power to the TX ports. 12/24VDC low voltage options available with PoE. The AMG Industrial Series is ISO9001-certified and have a lifetime warranty.



### Commercial Series

The Commercial Series of ten to fifty-two port, all gigabit managed Ethernet Switches are designed for use in conditioned environments. Available in 10, 18, 24, 26, 28, and 52 port models, these switches are available in PoE and non-PoE versions. The PoE models offer IEEE802.3at/bt, 30/60/90W power to the TX ports. Optional 10G uplink capable, redundant power, optical aggregate Ethernet switches available.



The AMG510-8GBT-16GAT-4XS-P460 28 Port Managed Switch offers IEEE802.3bt 60/90 Watt PoE to eight 10/100/1000Mbps TX Ports. In addition, the switch supports IEEE802.33at/bt 30/60/90 Watt PoE to sixteen 10/100/1000Mbps TX Ports with a 460W power budget. For aggregation purposes, there are four 1/2.5/10Gbps SFP Ports, all in a 1U 19-inch Rack Mountable chassis.

## Ethernet over Copper **EXTEND=NET**

ExtendNet™ is an advanced and unique technology that extends Ethernet networks beyond the 100-meter limitation encountered when using COAX or UTP for IP Video and IT projects. ExtendNet™ is a cost-saving alternative that enables you to use existing COAX and UTP cables for Ethernet transmission over longer distances. ExtendNet™ transmits individual Ethernet data channels with Pass-through PoE+ over standard UTP or Coaxial cable.

- ExtendNet™ is:
- AMG140 Series of Ethernet repeaters with support for 802.3at/bt 30/60/90W PoE pass-through.
  - AMG160 Series of distance-extending models using proprietary technology that extends Ethernet up to 1 kilometer (3280 feet) over UTP or COAX. Supports 802.3at/bt 30/60/90W PoE Pass-Through, DIN Rail /Wall Mount, -40°C to +75°C, 24-56VDC Power Input
  - AMG172 models that utilize VDSL2 and can extend high-speed Ethernet up to 2700 meters (8858 feet) over UTP or 2000 meters (6560 feet) over COAX.
  - Longest available transmission distances
  - Fixed data rate at maximum specified distance



AMG140 Series



AMG160 Series

## AMG Power Injectors and Splitters

AMG offers PoE Injector products supporting 100Mb, 1Gb, 2.5Gb & 10Gb Ethernet speeds and provide IEEE802.3at 30W or IEEE802.3bt 60/90W of PoE from either one, two, four, six, or eight ports, sixteen ports and up to twenty-four ports in a 1U rackmount. AMG offers a complete series of models ensuring that AMG has a PoE Injector for every application. AMG offers AC or DC, redundant power, and low-voltage booster options. These units are designed in the USA & UK and manufactured in the UK and are hardened to operate in extreme conditions.



## Industrial Wireless Ethernet Transmission

AMG offers two product series of Wireless Ethernet Products.

### 5GHz Wireless Series

The AMG wireless product series is wireless Ethernet transmission made easy. Power, Point, and Play. Power up the units, point the antennas, and start transmitting Ethernet. The AMG Wireless kit consists of an easy pre-packaged Point-to-Point kit containing everything you need to connect one camera or client to an access point, and Point-to-Multipoint models allowing multiple client/camera locations to connect to an access point. This AMD series will support up to 500Mbps throughput and supports a wide range of Ethernet devices such as megapixel/HD cameras, DVRs, encoders/decoders and web servers. The AMG Wireless Series is secure and uses encryption to prevent unauthorized access to the system. Distances up to 6km is achievable.



- Features:
- Up to 30dBm output power
  - Secure transmission: WPA2 – AES or TKIP encryption.
  - Exclusive AMG Antenna alignment feature eases installation - automatic transmit power control, frequency diversity, and spectrum analyzer tool make installation easy.
  - Distance adjustments allow for long-range transmission
  - Optional antennas available for added configuration flexibility
  - 24V Gigabit Ethernet port (passive PoE) allows use of the full capacity of the radio when used in a point-to-point or point-to-multipoint network design
  - Passive mid-span compliant PoE support
  - Meets class IP66 dust and water ingress protection standards

### Cellular Series

This AMG product line of 4G/LTE Routers allows secure and reliable transmission over the public cellular network providing off-grid sites or mobile applications with a robust high-speed cellular and/or WAN connection. Supporting dual SIM cards for multiple providers fail-over redundancy. Models are available for use in Europe, the USA and Australia, and are hardened for use in extreme conditions from -40°C to +75°C.

Industrial 4G/LTE Cat4 Router with four 10/100/1000Mbps Ports with 802.3at 30W PoE, one 10/100/1000Base-T(x) WAN Port, WIFI, RS232/485 Serial, Dual SIM, DIN Rail Mount.



## AMG Product Deployment Systems

AMG's 19inch Racks provide easy-to-use and elegant mounting solutions for many of the AMG products in standard rack cabinets fitted with 19-inch rails. Multiple options are available including solutions for 1U, 3U & 4U heights with single or dual redundant power supply options. These units are designed and manufactured in the UK, and operate in extreme conditions from -40°C to +75°C

The AMG2034 rack features sliding rails to allow easy access anytime in service without disruption to your network. A powered backplane allows multiple low-voltage inputs along with a clean wire-management system. Multiple voltage options (12/56VDC) are offered. See how the AMG 2034 can revolutionize the way you deploy your network equipment.



## AMG Fiber Optic Video And Data Transmission Products

- Supports all the latest SD and HD video formats including CVI, TVI, AHD and CVBS
- SD, HD, 2MP, 3MP, 4MP and 5MP cameras supported
- Video resolutions up to 1960p are supported
- Compatible with all NTSC, PAL, or SECAM CCTV camera systems
- Environmentally Hardened
- Optional Data and Contact Closure
- RS-232, RS-422 and RS-485 Serial Data Products
- 4 and 8 simplex or duplex contact closure Fiber Optic Products

