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Product Guide: Industrial vs Commercial Ethernet grade equipment for CCTV applications
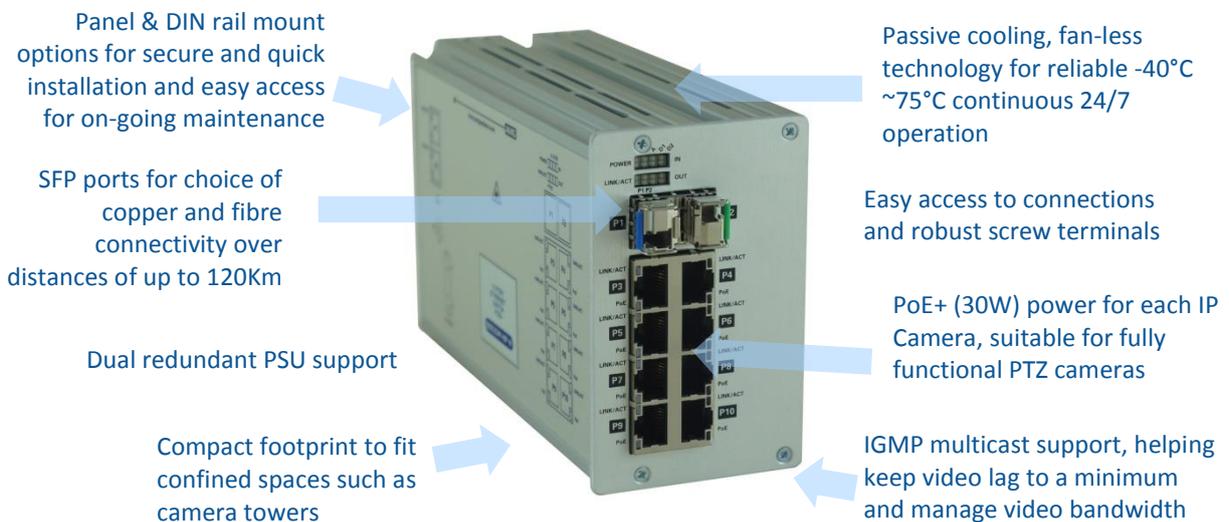
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When to choose Industrial vs Commercial grade Ethernet equipment

Unlike most CCTV equipment, Ethernet manufacturers use completely different internal electronic components, chipsets, case materials and physical designs, depending on where the equipment will be installed. This ensures optimal price performance for the application:

- *Commercial Ethernet Products*: designed for internal, precisely managed environments such as a comms room or office space, often located in 19" racks resting on shelves, having an operating temperature of around 0°C ~ +40°C
- *Industrial Ethernet Products*: for more challenging environments such as factories, warehouses, outdoor cabinets, camera towers etc., often mounted in metal cabinets, on DIN rails or directly on to panels, having an operating temperature range of -10°C ~+60°C (Industrial grade) to -40°C ~+70°C (Industrial Hardened)

CCTV cameras are often located 'in the field' (sometimes in remote locations) - on towers, along perimeter fence lines, mounted on outbuildings etc. and can require an Ethernet network working to the same environmental specification. With an Ethernet operational distance of 90m, the **associated** network equipment is often located in adjacent unheated weather resistant housings such as roadside cabinets and camera tower bases where 19" racks and temperature controls are not available.

Ethernet Network equipment specifically designed to support CCTV installations:

Panel & DIN rail mount options for secure and quick installation and easy access for on-going maintenance

SFP ports for choice of copper and fibre connectivity over distances of up to 120Km

Dual redundant PSU support

Compact footprint to fit confined spaces such as camera towers

Passive cooling, fan-less technology for reliable -40°C ~75°C continuous 24/7 operation

Easy access to connections and robust screw terminals

PoE+ (30W) power for each IP Camera, suitable for fully functional PTZ cameras

IGMP multicast support, helping keep video lag to a minimum and manage video bandwidth

For more information on how AMG Systems can help deliver digital and analogue transmission solutions over wireless, Ethernet and fibre media, or to find out more about available training courses and details of our full product range, please contact AMG Systems Ltd on +44 (0)1767 600 777 or email: technical@amgsystems.com or sales@amgsystems.com

AMG Systems Ltd 3 The Omega Centre, Stratton Business Park, Biggleswade, Bedfordshire, SG18 8QB, UK   **www.amgsystems.com**