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by CBC

GNET GWAVE

Ethernet Transmission Products

Selection Guide

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Introducing GNET and GWAVE by GANZ
Ethernet Transmission Products for Fiber Optic and Copper Networks

Ethernet Electrical-to-Optical Media Converters

- Electrical Ports Auto-Negotiate Data Rate
- 100 Mbps Optical Output
- Hardened Industrial or Commercial Grade

Ethernet-over-Copper Extenders

Ganz Ethernet-over-Copper Extenders allow you to use your existing cable infrastructure of COAX or UTP as Ethernet media for your next system renovation.

- Increased Distance – expands transmission distances from 300 feet for traditional UTP to 3000 feet for UTP and 5000 feet for COAX
- Cost-Effective – saves cost of new media and installation labor
- Extends PoE Distances
- Solves Density Challenges; 1, 4, and 16 channel COAX and UTP models.
- Easy installation, just connect and go

Managed & Unmanaged Ethernet Switches

- Up to 10 Port Ethernet Switches
- PoE (Power Over Ethernet): up to 30W of PoE per port
- Hardened Industrial or Commercial Grade

Self-managed Ethernet Switches

The port-configured Ethernet self-managed switches allows you create an Ethernet network with no programming.

- Does not allow IP video to flood the network
- No Software Programming Required, Pre-Programmed for Ease of Installation
- Collect and Forward to Next Ethernet Switch/Network Device
- 4 Models Available

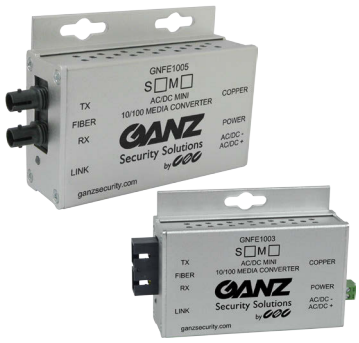
GWave Wireless Ethernet

The GWAVE line consists of an easy pre-packaged Industrially Hardened Point-to-Point kits that contains everything you need to establish remote connections to Ethernet edge devices.

GWAVE

- Supports up to 95Mbps throughput
- Supports a wide range of Ethernet devices such as megapixel/HD cameras, DVRs, encoders/decoders and web servers.
- Uses WPA2 – AES or TKIP encryption to prevent unauthorized access
- Alignment feature eases installation and setup
- Industrially Hardened links meet class IP67 dust and water ingress protection standards

Ethernet to Optical Fiber Media Converters



10/100 Mbps 2 Fiber Electrical to Optical Ethernet Media Converters

Ganz Ethernet media converter series are one-channel Ethernet electrical to optical media converters. These auto-negotiating devices accept a 10/100Mbps electrical input and convert this to a 100 Mbps optical output. This series of media converters use two multi-mode or single-mode optical fibers and SC or ST optical connectors. Standard size units may be either wall or rack mounted. Models within the series are also available in a small size.

MODEL	
GNFE1005M2	Industrial Grade Media Converter, 100Mbps, Multi-mode, Standard Size
GNFE1005S2	Industrial Grade Media Converter, 100Mbps, Single Mode, Standard Size
GNFE1005MAC2-M	Industrial Grade Media Converter, 100Mbps, Multi-mode, AC/DC, Mini Size
GKFE1005MAC2-M	Kit: 2 × Industrial Grade Mini Media Converter GNFE1005MAC2-M
GNFE1003MAC2-M	Industrial Grade Media Converter, 100Mbps, Multi-mode, AC/DC, Mini Size
GKFE1003MAC2-M	Kit: 2 × Industrial Grade Mini Media Converter GNFE1003MAC2-M
GNFE1005SAC2-M	Industrial Grade Media Converter, 100Mbps, Single Mode, AC/DC, Mini Size

Commercial Grade 10/100 Mbps Electrical to Optical Ethernet Media Converters

Ganz Ethernet 2 port media converters are designed to transmit and receive 10/100 Mbps data over multi-mode or single mode optical fiber. The electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. These media converters are commercial grade for light industrial use.

MODEL	
GWFE2SCM2	Commercial Grade Media Converter, 100Mbps, Multi-mode
GWFE2SCS2	Commercial Grade Media Converter, 100Mbps, Single Mode

Ethernet over Copper Extenders

Ethernet-over-Copper Extender With Pass-Through PoE

Ganz Ethernet over copper line supports up to sixteen channels of 10/100Mbps Ethernet with Pass-through PoE over twisted pair cable (CAT-5, UTP), or over coaxial cable. The single channel units may be powered by a PoE switch or the included power supply. Four and sixteen channel units operate from local power. These units provide the ultimate flexibility for extending a powered device (PD) over long distance copper. DIP switches are provided for user-selection of local or remote, 10 or 100 Mbps, and 1 pair or 4 pair (UTP) settings.

MODEL	
GLFE1EOC	1 Channel 15W Coax Industrial Grade Ethernet Extender
GKFE1EOC	Kit: 2 × GLFE1EOC
GLFE1EOU	1 Channel 15W UTP Industrial Grade Ethernet Extender
GKFE1EOU	Kit: 2 × GLFE1EOU
GLFE4EOC	4 Channel 15W Coax Industrial Grade Ethernet Extender
GLFE4EOU	4 Channel 15W UTP Industrial Grade Ethernet Extender
GLFE16EOC	16 Channel 15W Coax Industrial Grade Ethernet Extender
GLFE16EOU	16 Channel 15W UTP Industrial Grade Ethernet Extender

Ethernet-over Copper Self-Managed Switches

10/100 Mbps Ethernet-over-Copper Self-Managed Switches

Ganz five-port Ethernet switches with uplink management functionality provide 4 copper ports operating at 10/100Mbps and are designed to combine four electrical ports into a single electrical Cat5, UTP, or Coax CopperLine port that forwards this data to the next network device. The GLFE4+1SMS comes pre-programmed, preventing network video flooding with DIP switch selection of the fifth electrical port as uplink or as an unmanaged switch. Ports 1–4 can supply up to thirty (30) watts of Power over Ethernet (PoE) and incorporate PoE+ features based on the IEEE 802.3at standard.

MODEL	
GLFE4+1SMSPOEC	Industrial Grade 10/100 Mbps 4 Port Self-managed Switch, Ethernet-over-Coax
GLFE4+1SMSPOEU	Industrial Grade 10/100 Mbps 4 Port Self-managed Switch, Ethernet-over-UTP

Managed Ethernet Switches

Commercial Grade 10 Port Managed Ethernet Switch: (8) 10/100TX RJ45 + (2) 10/100/1000TX or 100/1000FX SFP Ports and Power over Ethernet (PoE)

Ganz GWGE2FE8MSPOE Managed Ethernet Switch provides transmission of (8) 10/100 BASE-TX and (2) 10/100/1000TX or 100/1000FX combo ports. These units are available for use with either conventional CAT-5e copper or optical transmission media. The 8 electrical ports support the 10/100 Mbps Ethernet IEEE 802.3 protocol, and auto-negotiating and auto-MDI/MDIX features are provided for simplicity and ease of installation. All 8 ports support IEEE.802.3af based POE (Max total PoE budget is 77W). 2 ports are 10/100/1000 configurable for copper or fiber media for use with multi-mode or single mode optical fiber, selected by optional SFP modules. These network managed layer 2 switches are optically (100/1000 BASE-FX) and electrically compatible with any IEEE 802.3 compliant Ethernet devices.

MODEL	
GWGE2FE8MSPOE	Commercial Grade 10 Port Managed Ethernet Switch with 8 Ports of 10/100 Mbps TX + PoE, 2 Ports 1000 Mbps TX/SFP FX, 48 VDC Input

Commercial Grade 26 Port Managed Ethernet Switch: (24) + (2) 10/100/1000 Base TX + 100/1000FX SFP Ports and Power over Ethernet (PoE)

The Ganz™ GNET GWGE26FX2TX24MSPOE is an extended temperature commercial grade Managed Ethernet Switch. It provides IEEE 802.3at PoE to twenty-four 10/100/1000BASE-T(X) two of which are also gigabit combo ports supporting 100/1000Fx SFP Modules. A further two-100/1000FX SFP* ports are also included. Up to 400 watts of PoE power is available for distribution across all 24 TX ports. All SFP ports utilize Ganz SFPs for fiber and connector type and distance. The GWGE26FX2TX24MSPOE is a redundant switch offering multiple Ethernet redundancy protocols to protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network.

MODEL	
GWGE26FX2TX24MSPOE	(22) 10/100/1000 BASE-T(X) + (2) Gigabit Combo Ports + (2) 100/1000 BASE-FX with Power over Ethernet (PoE+)

Please refer to individual data sheets for complete product specifications. See back for accessories.

Unmanaged Ethernet Switches

10/100 Mbps Unmanaged Ethernet Switches

Ganz Ethernet unmanaged switches are designed to transmit and receive 10/100 Mbps data over CAT5E/6 electrical cable. The electrical interfaces will Auto-Negotiate to 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. These units are interchangeable between stand-alone or card mount configurations.

MODEL	
GNFE4TX4US	Industrial Grade 10/100 Mbps 4 Port Unmanaged Switch
GNFE8TX8US	Industrial Grade 10/100 Mbps 8 Port Unmanaged Switch

10/100/1000 Mbps Unmanaged Ethernet Switches

Ganz Ethernet unmanaged switches are designed to transmit and receive 10/100/1000 Mbps data using small form factor pluggable modules. Both are environmentally hardened to operate in demanding environments. LED indicators are provided for confirming equipment operating status. Plug-and-play design ensures ease of installation requiring no optical adjustments. These units are interchangeable between stand-alone or card mount configurations.

MODEL	
GNGE4US	Industrial Grade 10/100/1000 Mbps 4 Port Unmanaged Switch
GNGE8US	Industrial Grade 10/100/1000 Mbps 8 Port Unmanaged Switch

Wireless Ethernet

Point-to-Multipoint Wireless Ethernet Link

Ganz GWAVE industrially hardened wireless Ethernet transmission link can be configured through the embedded User Interface as a Client or as an Access Point. This point-to-multipoint model allows multiple Ethernet endpoints to be connected to a central Access Point. Up to 15 endpoints can be linked to a central access point. The GW1 supports up to 95Mbps throughput using MIMO technology. The units can be powered by an IEEE 802.3af/at PoE compliant device or through the supplied power injection module. The GW1 is FCC certified for use in North America.

MODEL	
GW1	Industrial Grade Wireless Ethernet Link
GWK1	2 × GW1, Preconfigured as paired Access Point and Client

Accessories

MODEL	
GPS48VDC-5A	48VDC power supply for GWFE4+1SMSPOE(C,U) units when using PoE, 240 Watts, 5 A, DIN mounted
GPS-DRA60-48A	48VDC power supply for GWFE4+1SMSPOE(C,U) units when using PoE, 60 Watts, 1.25 A, DIN mounted
GPS-DRA120-48A	48VDC power supply for GWFE4+1SMSPOE(C,U) units when using PoE, 120 Watts, 2.5 A, DIN mounted
G1US	Card cage rack with 90-264 VAC 50/60hz power supply, 14 available slots, 4RU
G3US	Card cage rack with 12 VDC 2A power supply, 3 available slots, 1RU
GW1/IA870	Optional internal antenna for GW1, 8dBi, 70 degree beam width (recommended for multipoint Access Points)
GSFP-1	Copper 10/100/1000Mbps RJ45, MSA Compliant
GSFP-2	100fx, 1310nm, MM, 2 Fiber, 2km, LC, MSA Compliant
GSFP-3	100fx, 1310nm, SM, 2 fibers, 20km, LC, MSA Compliant
GSFP-6	1000fx, 1310nm, SM, 2 fibers, 15km, LC, MSA Compliant
GSFP-16	1000fx, 850nm, MM, 2 fibers, 550m, LC, MSA Compliant
GSFP-46	1000fx 1310nm, MM, 2 fibers, 2km, LC, MSA Compliant

Please refer to individual data sheets for complete product specifications.

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