



INCLUDED



HARDENED



CONVERTER



1



The GANZ™ GNET GNFE1005MAC1M Ethernet 2 port media converters are designed to transmit and receive 10/100 Mbps data over multimode 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 environmentally hardened to operate in extreme temperatures.

FEATURES

- › 10/100 Mbps Ethernet
 - 10/100 BASE-T/TX electrical port
 - 100 BASE-FX optical port
- › Electrical port supports Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data.
- › Optical port supports 100 Mbps full duplex data
- › Automatic MDI/MDI-X crossover
- › Distances up to 3 km (2 miles)
- › Transparent to data encoding/compatible with major data protocols
- › Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.

- › AC powered models
- › Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events.
- › No in-field optical adjustments required
- › LED Indicators
- › IEEE 802.3 compliant
- › Lifetime Warranty

APPLICATIONS

- › 10/100 Mbps Ethernet Media Converter
- › High Speed Computer Links



SPECIFICATIONS

Data

| | |
|----------------|--|
| Data Interface | Ethernet |
| Data Rate | 10/100 Mbps IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Port/Full Duplex Optical Port |

Fibers

2 Fibers

Connectors

| | |
|------------|----------------|
| Optical | ST |
| Power | Terminal Block |
| Electrical | RJ45 |

Indicating LEDs

- Optical Link/Data Activity
- Electrical Link/Data Activity
- Power

Power

| | |
|-------------------|--------------|
| Operating Voltage | 22 to 27 VAC |
| Power Consumption | 3 W max |

Electrical & Mechanical

| | |
|-----------------------|---|
| Current Protection | Automatic Resettable Solid-State Current Limiters |
| Circuit Board | Meets IPC Standard |
| Size (in./cm) (L×W×H) | 3.3 × 2.5 × 1.1 in (8.4 × 6.4 × 2.8 cm) |
| Shipping Weight | <2 lbs./0.9 kg |

Environmental

| | |
|-------------------|---|
| MTBF | >100,000 hours |
| Operating Temp | -40° C to +75° C |
| Storage Temp | -40° C to +85° C |
| Relative Humidity | 0% to 95% (non-condensing) ¹ |

AGENCY COMPLIANCE



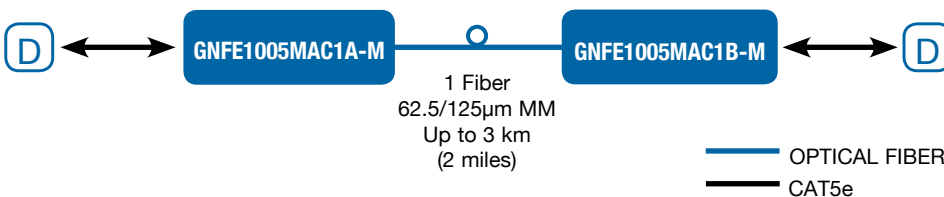
MADE IN THE USA

INCLUDED IN KIT

| Part Number | Wavelength | Connector | Fibers Required | Fiber | Optical Pwr Budget | Max. Distance |
|-----------------|---|-----------|-----------------|-----------|--------------------|---------------|
| GNFE1005MAC2A-M | 10/100 Mbps Ethernet (1310 nm) | ST | 2 | Multimode | 10 dB | 3 km (2 mi) |
| GNFE1005MAC2B-M | 10/100 Mbps Ethernet (1550 nm) | ST | 2 | Multimode | 10 dB | 3 km (2 mi) |
| Accessories | DC Plug in Power Supply, 90-264VAC, 50/60Hz (Included) | | | | | |
| Options | [1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) | | | | | |

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATION



All specifications are subject to change without notice.