

# MODEL HF1001

## HARDENED 100 MBPS ETHERNET COPPER TO FIBER MEDIA CONVERTER

The model HF1001 Hardened 100 Mbps Ethernet Copper to Fiber Media Converter is industrial strength all the way. Rugged packaging extended temperature capability, choice of AC and DC power and ease-of-use are the primary characteristics of this flexible product. Convert and transmit data between 100BaseTX shielded twisted pair (STP) and 100BaseFX fiber optic cables for media flexibility in new or expanding 100 Mbps Ethernet networks. The unit is fully compliant with the Fast Ethernet specification and the IEEE 802.3u standard. The HF1001 is also energy efficient, consuming only 3 watts in use.

The HF1001 Hardened 100 Mbps Ethernet Copper to Fiber Media Converter features a sealed metal case, which is also used to dissipate heat. The HF1001 requires no airflow for cooling so it easily resists dust, dirt, moisture, smoke, insects and protects the unit internals in case of fire. A selection of external AC or internal DC power options are available to fit virtually every requirement. The ambient temperature rating for the rugged HF1001 is  $-40^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$  depending on the power source used.

The model HF1001 Hardened 100 Mbps Ethernet Copper to Fiber Media Converter is designed to provide reliable, trouble free operation in harsh industrial and outdoor applications environments. The high-strength fabricated metal packaging shields against Radio Frequency Interference (RFI) and Electromagnetic Interference (EMI).

The HF1001 is backed by a full three-year factory return warranty.



### FEATURES

- Hardened for Industrial, Plenum and Outdoor Applications
- AC or DC Powered with Choice of Temperature Range
- Crossover Switch on RJ-45 Port
- Visual Status Information Provided by Two Sets of LEDs for Any Angle Easy Viewing
- Sealed Metal Enclosure Requires No Airflow for Cooling
- Auto-Negotiation Supported
- Extend LAN Distance up to 40 Km on Single Mode Fiber



FIBER OPTIC XTENSION LEADER

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### SPECIFICATIONS

#### ● PERFORMANCE

**Data Rate:** 100 Mbps, half-duplex or full-duplex mode

#### ● NETWORK STANDARDS

**Ethernet:** IEEE 802.3u, 100BaseTX and 100BaseFX

#### ● OPERATING ENVIRONMENT

**Ambient Temperature:** See Matrix below

**Cold Start:** Down to -25°C

**Storage Temperature:** -40° to 185°F (-40° to 85°C)

**Ambient Relative Humidity:** 5% - 95%

(non-condensing)

**Conformal Coating for Humidity Protection:**

Optional

#### ● PACKAGING

**Enclosure:** Rugged steel sheet metal

**Dimensions of Unit:** 3.5" H x 3.0" W x 1.0" D  
(8.9 cm x 7.6 cm x 2.5 cm)

**Weight:**

**Media Converter:** 4.6 oz (130g)

**Power Supply:** 3 oz (85g) or 5.8 oz (165g)

**Cooling Method:** Case used as a heat sink

#### ● LED INDICATORS

**PWR:** Steady on when power applied

**LINK:** (per port) Steady on when both attached cable segments are operational at the other end

**RX/ACT:** (per port) Blinking when receiving packets

#### ● REGULATORY COMPLIANCE

UL listed (UL60950), cUL, CB, CE Low Volt. Dir. & Electro-Mag Comp.

IEEE P1613 Environmental Std for Electric Power Subs

Emissions: Meets FCC Part 15 Class A, ETSI UL 2043 tested for above-the-ceiling (Plenum) installations

#### ● POWER SUPPLY

**Power Inputs:** 9 VDC, 24 VDC, -48 VDC and auto ranging 100-240 VAC at 50-60 Hz

**Power Consumption:** 3 Watts typical, 3.5 Watts max

#### ● TYPICAL APPLICATIONS

Industrial, Extended Temperature, Outdoor, Plenum, Cellular Towers, Security and Surveillance

#### ● CONNECTORS

**RJ-45 Port:** Shielded 8-Pin female with up-link switch

**Fiber Port:** MTRJ, ST or SC connector, multimode and single mode

#### ● WARRANTY: Three years

#### WORLD HEADQUARTERS

20600 Prairie Street

Chatsworth, CA 91311-6008

Phone (818) 718-6300 • Fax (818) 718-6312

E-mail: fiber@canoga.com

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