

# New! Canary Uni-Directional Media Conversion

Featuring:

- **One-Way Gigabit Fiber Port Transmission** ▪
- **Auto-Cross RJ-45 Port with Auto-Negotiation** ▪
- **Special Order Single-Mode CWDM Transceivers for Multiple Channel Transport** ▪

## GFT-1055D & GFT-1055DR Uni-Directional Media Converters

Canary **GFT-10XXD** and **GFT-10XXDR** Uni-Directional, Gigabit Ethernet Media Converters are designed for one-way data transmission across a single Fiber strand. Standard duplex SC Fiber connectors are utilized with their Full-Duplex function disabled.

Optimized for environments where two-way communications is undesirable, Canary *Uni-Directional*, Converters implement factory changes that are irreversible after configuration. No on-board external/internal switches or jumpers are usable to restore bi-directional operation either before or after installation. Simply changing Fiber Optic connectors will not re-enable Bi-directional operation.

The Gigabit Ethernet RJ-45 port is able to *Auto-negotiate* twisted-pair connections with other network devices. While a Full-Duplex link, may be established, at the UTP interface, it never actually transports full-duplex traffic.

Single-mode versions, (**GFT-1031D** & **GFT-1031DR**) provide one-way transmission over regular, single-mode Fiber. CWDM versions enable secure, multi-channel, transmission over a Single-Fiber strand by using Canary CWDM Multiplexers. Each wavelength-isolated channel is independently transported in parallel via its own discrete wavelength.

Making optimal use of state-of-the-art integrated circuits and surface-mount technology, Canary has created exceptionally reliable, tamper-resistant, low-cost single-purpose converters.



### ▪ **Simple, Plug-and-Go, UTP and Fiber Connections:**

Simply connect the Transmit (Tx) port of the GFT-1055D to the Receive (Rx) port of the GFT-1055DR using a single Fiber strand; then connect the RJ-45 port of each device with their associated host for secure, one-way data transmission

### ▪ **Highly Flexible & Secure Switch/Network Configuration:**

A selection of Fiber connectors including multi-mode and long-range Single-Mode, expand customer access and utilization of existing Fiber installations. Uni-Directional **GFT-1055D** / **GFT-1055DR** converters can also be special ordered in versions compatible for mounting in a standard Canary 16-Slot, CCM-1600 Media Converter chassis.

### ▪ **Unparalleled Network Integration and Versatility:**

Combine multiple, one-way data channels into *virtual trunks* for parallel transport over a single Fiber strand using CWDM (Coarse Wavelength Division Multiplexing) transceivers paired with optical multiplexers.

Alternatively, create CWDM wavelength based, optical VLANs. Simply make additional Copper and Fiber connections to increase the number of active, one-way Links – *Easy, Secure Expansion!*

**Canary Communications**

## Main Features:

### Standards:

- IEEE: 802.3z, IEEE 802.ab

### Interfaces:

- One 1000BASE-SX/LX/ZX Fiber Port
- One 1000BASE-T RJ-45 Port

### Networking:

- 1000 BASE-T / RJ-45 Port : Auto-Cross & Auto-negotiation
- Fiber port:
  - GFT-1055D / GFT-1031D: Fiber Transmit (Tx) only
  - GFT-1055DR / GFT-1031DR: Fiber Receive (Rx) only

Fiber Connector Types: 55 = m/m, SC; 31 = s/m, SC

### Management:

- No management access to internal functions

### Power:

- 100 ~ 240 VAC Auto-ranging Power input
- +5 VDC Power Output

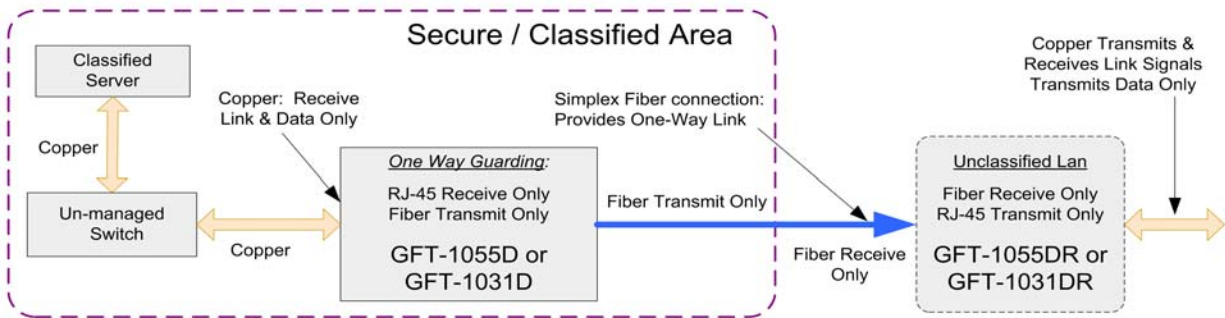
### Mechanical & Environmental:

- Desktop unit
- Operating temperature: 0°C~50°C



## Specifications:

<b>Standards:</b>	IEEE 802.3u 1000BASE-T/SX/LX/ZX	<b>Power:</b>	Input: 100 ~ 240 VAC,
	IEEE 802.1d Spanning Tree Compatible	<b>Temperature:</b>	Operating: 0° C to 50° C Storage: -20° C to 70° C
	IEEE 802.1q VLAN Compatible (One-way)	<b>Humidity:</b>	Operating: 10% to 80% RH Storage: 5% to 90% RH
	IEEE 802.3x Flow Control (None)	<b>Emissions:</b>	FCC Part 15 of Class A & CE Approved
<b>Ports:</b>	[1] 1000BASE-SX/LX	<b>Safety:</b>	EN 60950
	[1] 1000BASE-T (RJ-45)	<b>Dimensions:</b>	5.75 in. X 2.85 in. X 1.00 in. (D x W x H) [14.61 x 7.24 x 2.54 cm] (D x W x H)
<b>Max Distances:</b>	Fiber Optic: Up to 70 km (s/m)	<b>Weight:</b>	2.6 lb. (1.2 Kg) (shipping wt.)
	RJ-45 : 100 m		



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