New! *Canary Uni-Directional Data Transmission*

Featuring:

- **Switch-Selectable Auto-Negotiation or Forced Full-Duplex RJ-45 Configuration**
- **Hard-Wired One-Way Fiber Port Transmission** · **Auto-Cross RJ-45 Port**
- *Special Order CWDM Transceivers for Multiple Channel Transport*

Canary **CFT-206XD** and **CFT-206XDR** Uni-Directional, Ethernet Converters are designed for one-way data transmission across a single fiber strand. Standard SC and ST Fiber connectors are utilized with their Full-Duplex function disabled.

Optimized for environments where two-way communications is undesirable, Canary *Uni-Directional*, Converters are unmanaged and implement factory design features that are irreversible after production. No on-board 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.
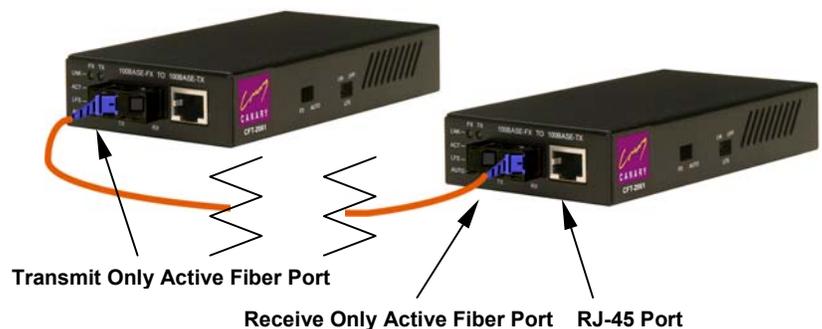
CFT-206XD & CFT-206XDR Fast Ethernet RJ-45 ports are Switch-Selectable to allow a choice of *Auto-negotiated or Forced* Full-Duplex twisted-pair links with other network devices. Nominally Full-Duplex connections are established at UTP interfaces, yet they never physically transport full-duplex traffic.

CFT-206XD & CFT-206XDR converters with CWDM wavelength transceivers also support multi-channel, parallel transmissions over a single Fiber strand. Each channel is transported via its own dedicated wavelength.

Canary has made possible exceptionally reliable, tamper-resistant, low-cost *Uni-directional* transmissions by making optimal use of state-of-the-art integrated circuits and surface-mount technology,

Design documentation is locked within secured factory locations per EAL recommendations.

CFT-206XD & CFT-206XDR Uni-Directional 100Mbps Converters

Transmit Only Active Fiber Port

Receive Only Active Fiber Port   **RJ-45 Port**

▪ Plug-and-Go, UTP and Fiber Connections:

Configure your application to run via UDP and connect the Transmit (Tx) port of the CFT-206XD to the Receive (Rx) port of the CFT-206XDR using a single Fiber strand; then connect and configure the RJ-45 port of each device with their associated host for secure, one-way data transmission

▪ Flexible, Secure Network/Host Configurations:

Low to High: Forward information to a Higher Security environment while blocking the un-authorized release of sensitive data in the reverse direction;

High to Low: Restrict authorized user access. Maintain System and Data Security, Integrity and Availability while allowing the limited export of selective information to lower security-level destinations.

▪ 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: 802.3u

Interfaces:
- One 100BASE-FX Fiber Port *
- One 100 BASE-TX RJ-45 Port

Networking:
- 100 BASE-TX / RJ-45 Port : Switch Selectable for Auto-negotiation and Forced (hard-Set) modes
- Fiber port:

  CFT-206XD: Fiber Transmit (Tx) only
  CFT-206XDR: Fiber Receive (Rx) only
- Fiber Connector Types: X = 1 ~ SC, X = 2 ~ ST, X = 6 ~ LC *

Management:
- No management access to internal functions

Power:
- 100 ~ 240 VAC Auto-ranging Power input
- +5 VDC Power Output
- 9 – 48 VDC Power with Screw-lock Terminal Block Option
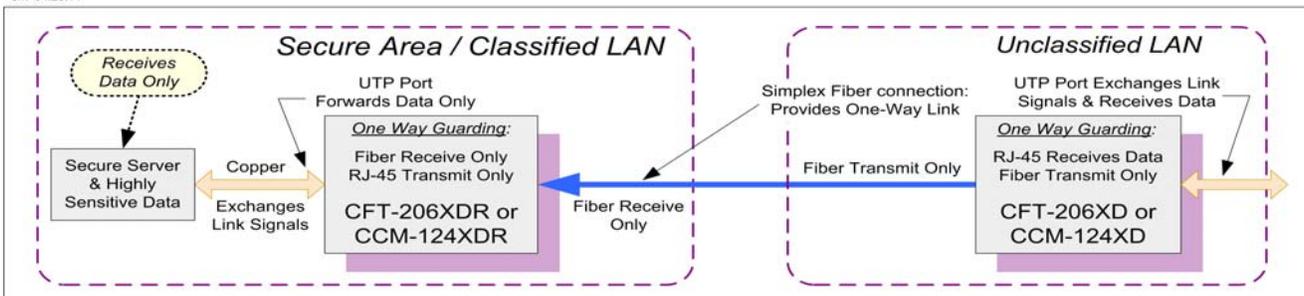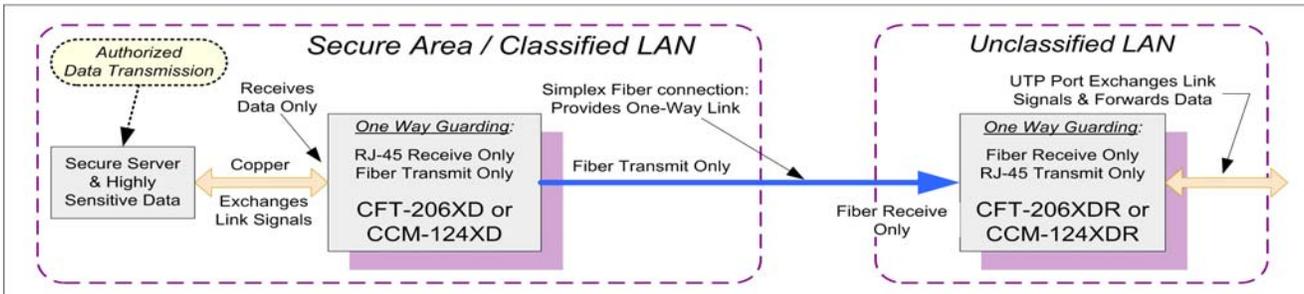
Mechanical & Environmental:
- Desktop Mounting
- 19 inch Mounting
- Mounting Operating Temperature: 0ºC~50ºC

Please contact Canary for technical details on additional models.

Specifications:

Standards:	IEEE 802.3u 100BASE-FX/TX IEEE 802.1q VLAN Compatible IEEE 802.3x Flow Control Not Supported	**Power:** **9 - 48 VDC [-V]:**	Input: 100 ~ 240 VAC, Output: 5 VDC **Optional:** 9 - 48 VDC Input + Terminal Block **CFT-206XD-V** & **CFT-206XDR-V** Versions
Ports:	[1] 100BASE-FX [1] 100BASE-T/TX (RJ-45)	**Temperature:**	Operating: 0º C to 50º C Storage: -20º C to 70º C
Throughput:	74,400 + Packets per Second (pps) thru 100 Mbps connections (one-way transmission)	**Humidity:**	Operating: 10% to 80% RH Storage: 5% to 90% RH
Max Distances:	Fiber Optic: Up to 110 km (s/m) RJ-45 : 100 meters	**Emissions:** **Safety:**	FCC Part 15 of Class A & CE Approved EN 60950, US 21 CFR (J) & EN 60825-1
Weight:	2.6 lb. (1.2 Kg) (shipping wt.)	**Dimensions:**	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)

JM 04.28.11

For more information, please visit us at:
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The Canary Communications QMS is Certified to ISO 9001:2015

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