

New! Canary Uni-Directional Data Transmission

Featuring:

- **One-Way Fiber Port Transmission** ▪ **Auto-Cross RJ-45 Port** ▪
- **Switch-Selectable Auto-Negotiation or Forced RJ-45 Configuration** ▪
- **Special Order Single-Mode 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.

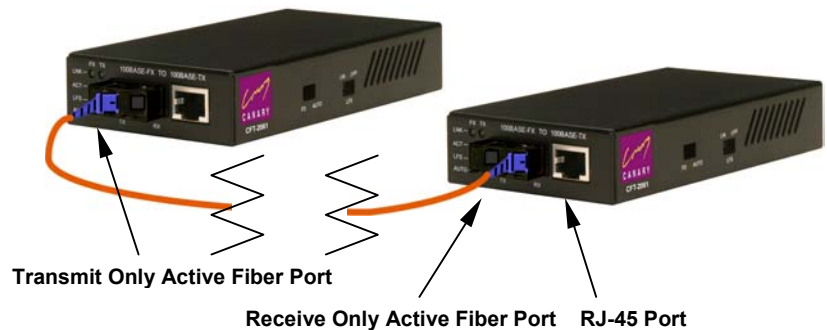
The Fast Ethernet RJ-45 port is Switch-Selectable to allow a choice of *Auto-negotiated* or *Forced* Full-Duplex twisted-pair links with other network devices. Although nominally Full-Duplex connections are established at the UTP interface, they never physically transport full-duplex traffic.

CFT-206XD & CFT-206XDR converters also support multi-channel, parallel transmission 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* transmission by making optimal use of state-of-the-art integrated circuits and surface-mount technology,

Design documentation for these units is locked in a separate, secured factory location.

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



▪ **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 Port
- One 100 BASE-TX RJ-45 Port

Networking:

- 100 BASE-TX / RJ-45 Port : Switch Selectable for: Auto-negotiation and Forced (hard-Set) mode
- Fiber port:
CFT-206XD: Transmit (Tx) only
CFT-206XDR: Receive (Rx) only
- Fiber Connector Types: X = 1 ~ SC, X = 2 ~ ST

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:

Standards: IEEE 802.3u 100BASE-FX/TX
IEEE 802.1q VLAN Compatible
IEEE 802.3x Flow Control Not Supported

Ports: [1] 100BASE-FX
[1] 100BASE-T/TX (RJ-45)

Throughput: 74,400 + Packets per Second (pps) thru 100 Mbps connections (one-way transmission)

Max Distances: Fiber Optic: Up to 110 km (s/m)
RJ-45 : 100 meters

Power: Input: 100 ~ 240 VAC,

Temperature: Operating: 0° C to 50° C
Storage: -20° C to 70° C

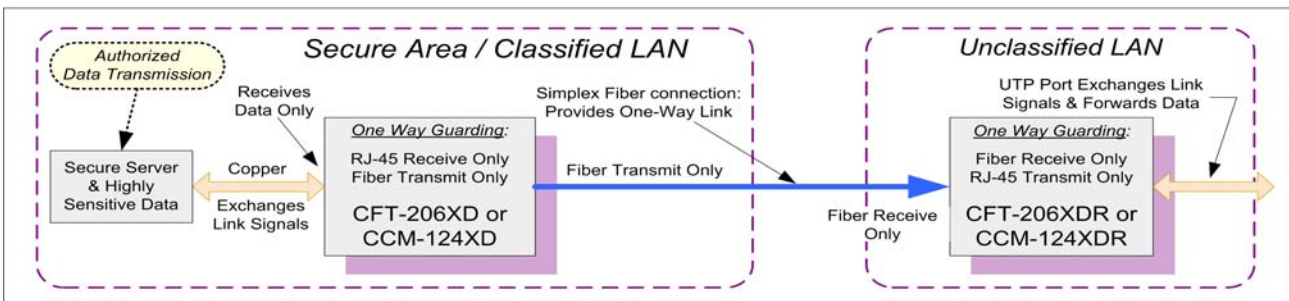
Humidity: Operating: 10% to 80% RH
Storage: 5% to 90% RH

Emissions: FCC Part 15 of Class A & CE Approved

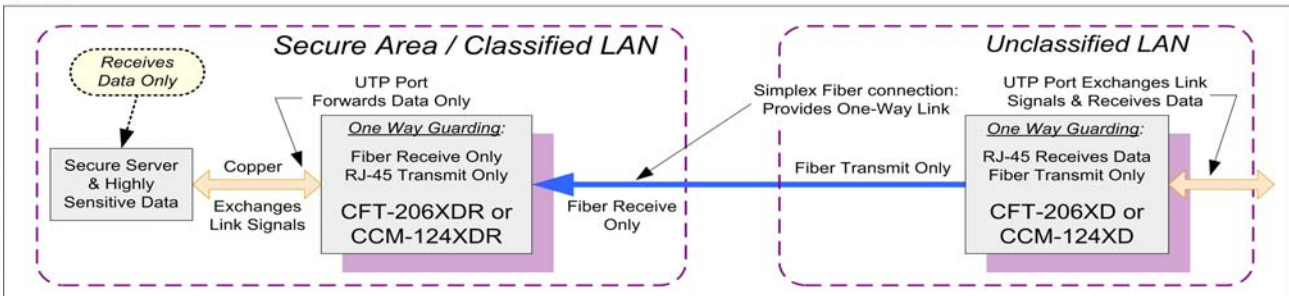
Safety: EN 60950, US 21 CFR (J) & EN 60825-1

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)

Weight: 2.6 lb. (1.2 Kg) (shipping wt.)



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Canary Communications is an
ISO 9001 : 2008 Registered Company

