Updated: *Standard Canary Fast Ethernet Converters*

Featuring:

- **Optional 9 – 45 VDC Power Input & Terminal Blocks · Auto-Cross RJ-45 Port**
- **Switch-Selectable Auto-Negotiation or Full-Duplex RJ-45 Configuration**
- *Special Order Single-Mode CWDM Transceivers for Multi-Channel Transport*

Canary **CFT-2061, CFT-2062 & CFT-2066** (**CFT-206X** series) Fast Ethernet Media Converters epitomize long-time industry standards for this class of products and are commonly deployed in network installations world-wide.

CFT-206X series converters are optimized for environments where 110/240 VAC power and 3-wire plugs are typically available and when un-interruptible Power Supply (UPS) equipment providing regulated AC current is preferred. They are now available with a Terminal Block for direct connection to dedicated 5-VDC Power sources, if desired.

CFT-206X updated Media Converters are simple "plug & play" devices that function seamlessly with older installed CFT-206X series converters. A choice of SC, ST and LC Fiber connectors, provides 100 Mbps data transmission over standard UTP and Fiber cabling. Multi-mode, Single-mode and Single-Fiber Bi-Directional links plus Coarse Wavelength Division Multiplexing (CWDM) type Fiber transceivers are available.

CFT-206X variants, using CWDM optics, support up to eighteen dedicated channel wavelengths transmitted over [one] Single-Mode Fiber cable. Each CWDM wavelength, when Multiplexed, is transported in parallel with seventeen other available channels.

CFT-206X series Converters offer a choice between Switch-Selectable Auto-negotiation or a *Forced, hard-set* Full-Duplex RJ-45 port configuration for twisted-pair links with other networked Fast Ethernet devices.

Canary makes simple, exceptionally reliable, low-cost, Ethernet transmission possible by making optimal use of advanced optics, state-of-the-art integrated circuits and surface-mount technology.

CFT-206X, CFT-206X-S & CFT-206X-V Media Converters plus CWDM & Single-Fiber, Bi-Directional Versions

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

Configure your application to run via Ethernet TCP/IP or UDP/IP. Connect each CFT Converter RJ-45 (Tx) port to the Source and Switch devices and connect the shared Fiber ports. Make the Power connections to each CFT-206X's Terminal Block and power-up. *Easy & Secure Connections!*

▪ Flexible, Secure Network/Host Configurations:

Between Domains: Forward information between Production/Machining zones or between remote Production areas and separated corporate offices. Extend transmission distances while limiting EMI/EMC interference and possible data corruption.

Link Fault Signaling: Canary is the original developer of LFS Loss of Link technology that *Forwards* the loss of any link to end devices. This approach has been widely copied & disseminated throughout the networking industry.

Physical Security: Optional DIN-Rail connections enable mounting within locked cabinets to control unauthorized access & equipment tampering.

▪ Unparalleled Network Integration and Versatility:

Combine multiple, 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, two-way Links – *Easy, Secure Expansion!*

Canary Communications

Main Features:

Diagnostic LEDs:

- Auto-Negotiation [Enabled], Activity [Fiber & UTP], Full-Duplex, Link [Fiber & UTP], Link Fault Signaling [LFS], System Power [Powered ON]

Networking:

- 100 BASE-TX / RJ-45 Port: Switch Selectable for Auto-negotiation or Forced Full-Duplex mode

- Fiber ports:

  CFT-2061: Multi-Mode SC with standard 5VDC PWR Jack
  CFT-2062: Multi-Mode ST with standard 5 VDC PWR Jack
  CFT-2066: Multi-Mode LC with standard 5VDC PWR Jack

  CFT-2061-S: Single-Mode SC & standard 5 VDC PWR Jack
  CFT-2062-S: Single-Mode ST & standard 5 VDC PWR Jack
  CFT-2066-S: Single-Mode LC & standard 5 VDC PWR Jack

  CFT-206X-V: Multi-Mode plus 9 – 48VDC Power & T-Block

  - Fiber Connector Types: **X** = 1 ~ SC, **X** = 2 ~ ST, **X** = 6 ~ LC

Management & Configuration:

- No Management access to internal functions
- Switch Configuration Options:

  (1) MDI / MDI-X [auto] switch: Automatically sets RJ-45 port to MDI or MDI-X configuration
  (2) LFS ON / OFF [manual] switch: Enables (LFS) Circuit
  (3) FD / AUTO [manual] switch: Enables Auto-Negotiation or forced (Hard-Set) Full-Duplex operation

Mechanical / Mounting:

- Desktop
- DIN-Rail: On Bottom [Back], On Side with choice of Power (Wire) Connections [Up or Down]; User can make selection during ordering process
- DIN-Rail is Special Order at time of placing purchase orders

Power:

- 9 ~ 48 VDC Auto-ranging Power input & 5 VDC Power Jack
- T-Block ~ Terminal Block + Screw-Locked Wire Connections

FCC Class A   CE Approval

Specifications:

Standards:	IEEE 802.3u	100BASE-FX/TX	
	IEEE 802.1q	VLAN Compatible	
	IEEE 802.3x	Flow Control Not Supported	
Ports:	[1] 100BASE-FX (SC, ST, LC)		
	[1] 100BASE-TX (RJ-45)		
Throughput:	74,400 + Packets per Second (pps) thru 100 Mbps connections (one-way transmission)		
Max Distances:	Fiber Optic: 2 Km (m/m), Up to 110 km (s/m)		
	RJ-45 : 100 meters		
Safety:	EN 60950, US 21 CFR (J) & EN 60825-1		

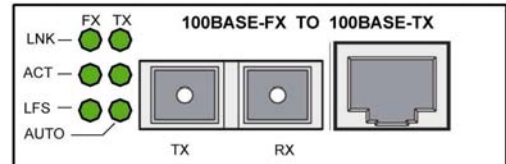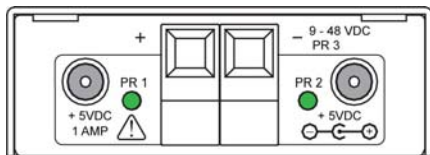|		
Power:	Input:	5 VDC via Power Jack, optional 9 – 48 VDC via Terminal Block
Temperature:	Operating:	0º C to 50º C
	Storage:	-20º C to 70º C
Humidity:	Operating:	10% to 80% RH
	Storage:	5% to 90% RH
Emissions:	FCC Part 15 of Class A & CE Approved	
Dimensions:	5.75 in. X 2.85 in. X 1.00 in. (D x W x H) [14.61 x 7.24 x 2.54 cm] (D x W x H)	
Weight:	2.6 lb. (1.2 Kg) (shipping weight)	
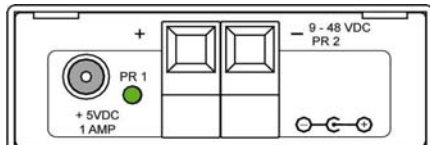
Legacy Mixed AC to 5 VDC & 9-48 VDC with Terminal Block

CFT-206X with 5 VDC input Power Jack for typical local AC power use, and the optional 9 – 48 VDC Power Input plus wire-lock Terminal Block

Newer Mixed AC to 5 VDC & 9-48 VDC with Terminal Block

Standard AC to 5 VDC Only

CFT-206X Face   [CFT-2061   1 = SC Fiber]

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

TÜV NORD / TUV USA Inc. / ISO 9001:2015

CANARY COMMUNICATIONS