



CCT100x4CDM™



CCT100x24CDM™

Specifications And Overview

- Reliable and cost effective Ethernet Media Converter: RJ45 copper and SFF optical transceivers
- Multimode or Single Mode optics
 - Single and dual fiber transceivers
 - Up to 2 KM on Multimode (MM)
 - Up to 40 KM Single Mode (SM)
- 10/100Base-T (802.3u) port speed with MDI-x
- No latency conversion
 - AFDX/ARINC 664 compatible and transparent
 - Switch/conversion is wirespeed managed
- Built-in converter diagnostics
 - Transparent Link or Sniffer Mode conversion
 - Tx/Rx activity status
 - LED troubleshooting lights
 - Full test at power-on
- Communications Diagnostic Module
 - Built in HTTP server for remote configuration
 - SNMP reporting of system data
 - 10/100 speeds supported
 - Half or Full-Duplex option
 - Transparent or switched conversion option
 - Electrical current draw monitoring on each port
 - Board level temperature monitoring on each port
- Standalone or rack mount 4 port appliance
- Rack mount 24 port 1RU version includes dual fans
- 110 to 240 AC built in, redundant AC optional
- 0 – 55° C operating temperature

Support and Warranty

CCT100x comes with a one-year warranty and support.

Solve the Optical/Copper Port Puzzle

CCT100x enables network designers to use their existing equipment...no need to upgrade to special fiber adapters. CCT100x can be matched with any of COTS' optical patch, tap, or variable attenuation products.

An Intelligent Connection and Conversion

CCT100x is both a media converter and a network link test device. The management software offers a plug and play default where the copper and fiber conversion is enabled only when both sides are connected. An optional setting puts the converter into a passive or sniffer mode where the optical or copper side can link with their connected device and data will pass thru even if both sides don't know they are linked. This is useful for passive network monitoring where hardware handshaking is not available.

Additional management options include Auto-Negotiation, Duplex, and loopback settings. Each port provides temperature, power, status, FW version, and reset options.

Port	Location	Link	Transceiver	Temperature	Current
1	Location	OK	31Tx 55Rx	45.7 °C	189 mA
2	Location	OK	31Tx 55Rx	44.1 °C	177 mA
3	Location	OK	31Tx 55Rx	45.1 °C	185 mA
4	Location	OK	31Tx 55Rx	42.8 °C	185 mA
5	Location	OK	31Tx 55Rx	42.2 °C	183 mA

Screenshot of the 24 port Summary menu

Configurations

CCT100x2 (Ltd Avail.)	CCT100x4CDM	CCT100x12CDM (Ltd Avail)	CCT100x24CDM
(2) RJ45-SFF ¹ converter ports	(4) RJ45- SFF ¹ converter ports	(12) RJ45- SFF ¹ converter ports	(24) RJ45- SFF ¹ converter ports
100BaseT, 802.3u UTP Port	100BaseT, 802.3u UTP Port	100BaseT, 802.3u UTP Port	100BaseT, 802.3u UTP Port
(6) Optical - Copper Link LEDs	(12) Optical - Copper Link LEDs	(36) Optical - Copper Link LEDs	(72) Optical - Copper Link LEDs
AC Power, 110-240V, 15 W	AC Power, 110-240V, 15 W	AC Power, 110-240V, 150 W	AC Power, 110-240V, 150 W
0 to 55° C Operating Temp.	0 to 55° C Operating Temp.	0 to 55° C Operating Temp.	0 to 55° C Operating Temp.
H x W x D: 1.5" x 8" x 8"	H x W x D: 1.5" x 8" x 8"	H x W x D: 1.70" x 17.5" x 10.8"	H x W x D: 1.70" x 17.5" x 10.8"
Weight: 3.2 lbs	Weight: 3.8 lbs	Weight: 10.5 lbs	Weight: 11.5 lbs
Humidity: 85% non-condensing	Humidity: 85% non-condensing	Humidity: 85% non-condensing	Humidity: 85% non-condensing

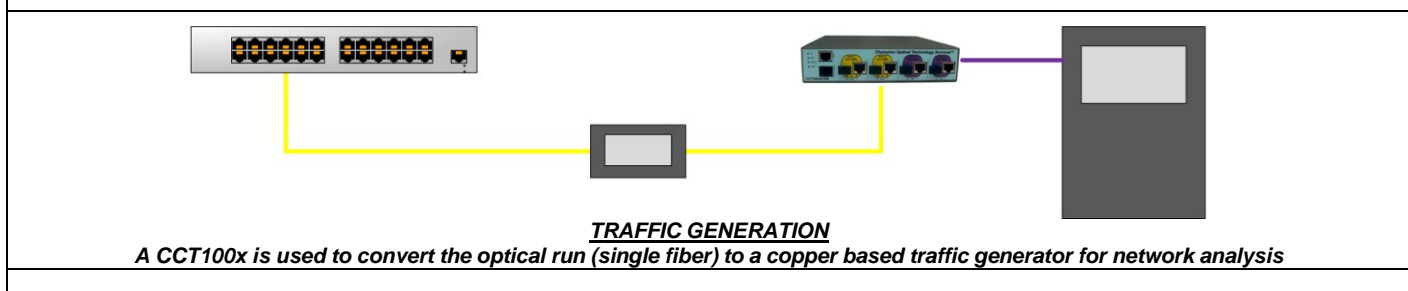
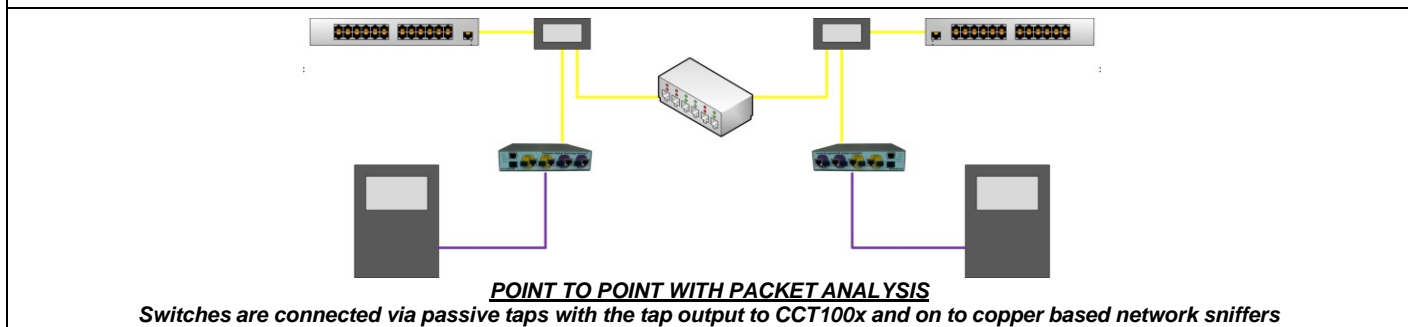
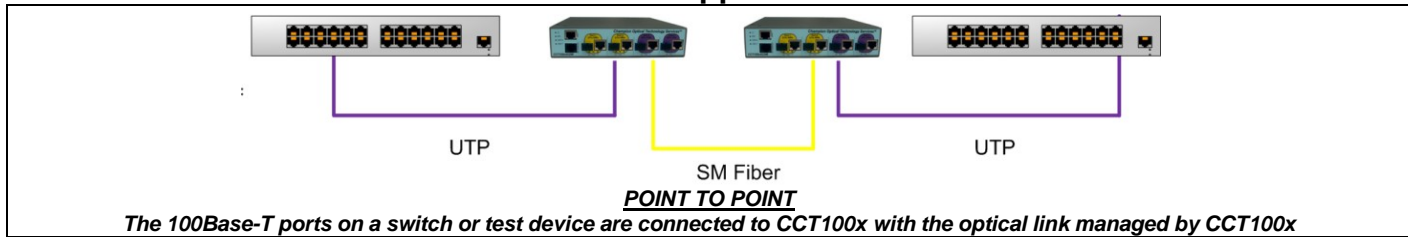
1. SFF port meets MSA specifications

Optical Transceiver Options

100SFF02	100SFF21	FL-100-31/55-xC*	FL-100-55/31-xC*
Ideal for applications up to 155Mbit/s 1804' (550 M), 1.24 mi. (2 KM)	Ideal for applications up to 155Mbit/s Up to 21KM	Ideal for applications up to 155Mbit/s To 39.7 miles (64 KM) ¹	Ideal for applications up to 155Mbit/s To 39.7 miles (64 KM) ¹
62.5-50.0 core, 160-500 Mhz/KM	Single Mode, 9/10 core size	Single Mode, 9/10 core size/ 62.5-50.0 core, 160-500 Mhz/KM	Single Mode, 9/10 core size/ 62.5-50.0 core, 160-500 Mhz/KM
Class 1 LED of 1300nm	Class 1 laser of 1310 nm	Class 1 laser of 1310 nm	Class 1 laser of 1550 nm
Min. Transmit dBm: -10	Min. Transmit dBm: -15	Min. Tx dBm: -14 (-10 Typ) on SM Min. Tx dBm: -11 (-9 Typ)	Min. Transmit dBm: -14 (-10 Typ) Min. Tx dBm: -11 (-9 Typ)
Min. Receive dBm: -17	Min. Receive dBm: -29	Min. Receive dBm: -28.2 on SM Min. Receive dBm: -25	Min. Receive dBm: -28.2 on SM Min. Receive dBm: -25
Typical link budget: 7 ²	Typical link budget: 11 ²	Typical link budget: 14 ²	Typical link budget: 14 ²
Duplex LC Connector, Bail Latch	Duplex LC Connector, Bail Latch	*Simplex LC or SC Connector	*Simplex LC or SC Connector
CDRH, CSA, TUV approval	CDRH, CSA, TUV approval	CDRH, CSA, TUV approval	CDRH, CSA, TUV approval

1. Assumes worst-case fiber loss of 25 dB/KM
2. Insertion loss estimate for this calculation is 3 dB.

Applications



Ordering Information

Product Number	Description	Port Information
CCT100x4CDM-213SFB-255SFB*	4-Port Converter, CDM installed, AC Pwr 2 Single fiber transceivers in each	4 RJ45, 4 SFF slots with LC connectors; CDM: 1 RJ45 10BaseT, 1 RJ45 Comm
CCT100x4CDM-2XXSF-2XXSF	4-Port Converter, CDM installed, AC Pwr 2 duplex transceivers of each	4 RJ45, 4 SFF slots; CDM: 1 RJ45 10BaseT, 1 RJ45 Comm
CCT100x4-Supply	Redundant External AC Supply	External AC Power
CCT100X4RUKIT	Rack kit holds (2) CCTX100x4 in (1) RU	Three industry standard rackbrackets
CCT100x24CDM-1213SFx-1255SFx	24-Port Converter, CDM installed, AC Pwr 12 Single fiber transceivers in each	24 RJ45, 24 SFF slots; CDM: 1 RJ45 10BaseT/ RJ45 Comm
CCT100x4CDM-12XXSF-12XXSF	24-Port Converter, CDM installed, AC Pwr 12 duplex transceivers of each	24 RJ45, 24 SFF slots; CDM: 1 RJ45 10BaseT/ RJ45 Comm
CCT100x24-Supply	Redundant external AC supply	External AC power
<p><i>*NOTE: "B" suffix indicates LC connector, optional "A" that indicates SC connector</i> Devices are EN 60950 Safety, EN 55022 & -24; EN 61000-3-2 & -3-3 and CE 89/336/EEC compliant</p>		