Amphenol CTF-1G-SM Hybrid Connector and Media Converter

Higher Speeds. Longer Distances. Less Components.

Amphenol Aerospace adds CTF-1G-SM to the CTF (Copper to Fiber) Media Converter Product Family. This product line is rugged, flexible, and affordable with many options available.

Features & Benefits:

- Gigabit Ethernet
- Optical fiber link distances to 10km
- Maximum optical channel bit error rate less than $10x10^{-9}$

Fiber Interface:

- Uses industry standard M29504 fiber termini interface

Copper Interface:

- Low profile, high speed connector
- Flexible ribbon cable

Ruggedization:

- Natural convection cooled (no fan)
- Operational temperature -40°C to +85°C
- Shock, vibration, immersion resistance per MIL-STD-810

Specifications

Electrical Specifications

Parameter	Symbol	Typ	Max	Unit
Supply Voltage	Vcc	3.3	-	V
Supply Current (Tx+Rx)	Icc	280	400	mA
Power Consumption (Tx+Rx)	P	940	1320	mW
Rx Output Current	$I_{cc}R_x$	50	-	mA

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Specifications

Optical Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Optical Output Power	P_{OUT}	-	-	-4.0	dBm
Optical Output Wavelength	λc	1290	1310	1330	nm
Spectral Width	Δλ	-	-	3.0	nm
Extinction Ratio	E_R	9.0	-	-	dB
Rise/Fall Time	τR, τF	-	-	150	ps
Receiver Sensitivity	P_{IN}	-25	-	-	dBm
Receiver Wavelength	λRx	1100	-	1650	nm

Available Test Equipment

Part Number	Description
CF-901201-006	**LC Fiber Optic Test Cable for D38999 Connector**
CF-020005-099	**SMA Test Board for Samtec Connector**