



ALLNET

DEM-312GT2-CO (compatible)

SFP 1.25Gb/s Transceiver without DDMI
Hot Pluggable, Duplex LC, 1310nm, Single Mode 10KM/
Multi Mode 2KM

- *Up to 1.25Gb/s data links*
- *Duplex LC Connector*



Features

- Up to 1.25Gb/s data links
- Hot-pluggable SFP Footprint
- Duplex LC Connector
- Compliant with specifications for IEEE802.3Z
- Eye Safety Designed to meet Laser Class1 Compliant with IEC60825-1
- Single +3.3V Power Supply
- Operating Temperature 0°C~+70°C
- RoHS compliance

Applications

- Gigabit Ethernet
- 1x Fiber Channel
- Other optical links

Specification

Electrical and Optical Characteristics (Condition: Ta=TOP)

Parameter	Symbol	Min.	Typ	Max.	Unit
Transmitter Differential Input Volt	+/-TX_DAT	650		2000	mV p-p
Supply Current	ICC		200	250	mA
Tx_Disable Input Voltage – Low	VIL	0		0.8	V
Tx_Disable Input Voltage – High	VIH	2.0		Vcc	V
Tx_Fault Output Voltage – Low	VOL	0		0.8	V
Tx_Fault Output Voltage – High	VOH	2.0		Vcc	V
Receiver Differential Output Volt	+/-RX_DAT	0.4		2000	mV p-p
Rx_LOS Output Voltage- Low	VOL	0		0.8	V
Rx_LOS Output Voltage- High	VOH	2.0		Vcc	V

TX

Parameter	Symbol	Min.	Typ	Max.	Unit
Data Rate	B	-	1250	-	Mb/s
Centre wavelength	λ_c	1296	1310	1330	nm
Output Spectral Width	$\Delta\lambda$	-	-	4	nm
Average Output Power	Po	-9	-	-3	dBm
Extinction Ratio	EXT	10	-	-	dBm
Data Input Voltage-High	VIHS	Vcc-1.16	-	Vcc-0.89	V
Data Input Voltage -Low	VILS	Vcc-1.82	-	Vcc-1.48	V
Supply Current	ICC	-	90	150	mA
Output Optical Eye	Compliant with IEEE802.3Z				



RX

Parameter	Symbol	Min.	Typ	Max.	Unit
Receive Sensitivity	Pmin	650	-	-22	dBm
Maximum Input Power	PMAX	-3	0	-	dBm
Signal Detect Threshold-Assertion:	SDHIGH	-	-	-23	dBm
Signal Detect Threshold-Deassertion:	SDLOW	-35	-	-	dBm
Hysteresis	-	-	2.0	-	dBm
Output High Voltage	VOH	Vcc-1.03	-	Vcc-0.89	V
Output Low Voltage	VOL	Vcc-1.82	-	Vcc-1.63	V
Operating Wavelength	λ_c	1100	-	1600	nm
Supply Current	ICC	-	80	110	mA

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	TST	-40	+85	°C
Operating Temperature (Com)	TIP	0	+70	°C
Operating Temperature (Ext)		-40	+85	
Input Voltage	TCC	0	5	V

Recommend Operation Environment

Parameter	Symbol	Min.	Typ	Max.	Unit
Supply Voltage	VCC	+3	3,3	+3,6	V
Operating Temperature	TOP	0	-	+70	°C
Operating Temperature		-40	-	+85	

Dimensions

Dimensions (H x W x D): 8.5 x 13.4 x 56.5 mm