

400G NDR IB QSFP112 Passive Loopback CLQSFP400GLP

Product Features:

- Supports a total data rate of 400Gbps & NDR
- Hot-pluggable MSA
- Compliance with QSFP112 MSA
- Case operating temperature 0°C to 70°C
- Compliance with SONET, SDH, GbE, Fibre Channel
- Compliance with CMIS5.0

Applications:

- QSFP112 port / system test
- Ethernet IEEE 802.3 (1G, 10G, 40G, 100G and 400G Ethernet)
- SDR, DDR, QDR, HDR and NDR InfiniBand
- SONET, SDH, GbE, Fibre Channel

Functional Characteristics (Electrical)

The following tables list the performance specifications for the various functional blocks of the module.

Table 1 – Electrical Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Operating Temperature	OT	0		70	°C	
+3.3V Supply Voltage	VCC	3.1	3.3	3.5	V	Main Supply Voltage
Data Rate		0		112	Gbps	up to 112Gbps per lane
Input/Output Load Resistance	RL	90	100	110	Ω	
Power Level 0				0	W	0 A

Table 2 – Connector Pin Description

Pin	Logic	Symbol	Name/Description
1		GND	Ground
2	CML-I	Tx2n	Transmitter Inverted Data Input
3	CML-I	Tx2p	Transmitter Non-Inverted Data Input
4		GND	Ground
5	CML-I	Tx4n	Transmitter Inverted Data Input
6	CML-I	Tx4p	Transmitter Non-Inverted Data Input
7		GND	Ground
8	LVTTL-I	ModSelL	Module Select
9	LVTTL-I	ResetL	Module Reset
10		VccRx	+3.3V Power Supply Receiver
11	LVC MOS-I/O	SCL	2-Wire Serial Interface Clock
12	LVC MOS-I/O	SDA	2-Wire Serial Interface Data
13		GND	Ground
14	CML-O	Rx3p	Receiver Non-Inverted Data Output
15	CML-O	Rx3n	Receiver Inverted Data Output
16		GND	Ground
17	CML-O	Rx1p	Receiver Non-Inverted Data Output
18	CML-O	Rx1n	Receiver Inverted Data Output
19		GND	Ground
20		GND	Ground
21	CML-O	Rx2n	Receiver Inverted Data Output
22	CML-O	Rx2p	Receiver Non-Inverted Data Output
23		GND	Ground
24	CML-O	Rx4n	Receiver Inverted Data Output
25	CML-O	Rx4p	Receiver Non-Inverted Data Output
26		GND	Ground
27	LVTTL-O	ModPrsL	Module Present
28	LVTTL-O	IntL	Interrupt
29		VccTx	+3.3V Power Supply Transmitter
30		VccI	+3.3V Power Supply
31	LVTTL-I	LPMODE	Low Power Mode
32		GND	Ground
33	CML-I	Tx3p	Transmitter Non-Inverted Data Input
34	CML-I	Tx3n	Transmitter Inverted Data Input
35		GND	Ground
36	CML-I	Tx1p	Transmitter Non-Inverted Data Input
37	CML-I	Tx1n	Transmitter Inverted Data Input
38		GND	Ground

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Connector	Temp.
CLQSFP400GLP	400Gbps (NDR)	QSFP112	0~70°C

CONTACT:

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