

Data Sheet

100Gb/S QSFP28 to 4xSFP28 Direct Attach Cable P/N: WS-Q84S-DACPx-x



Features:

- Compliant with IEEE 802.3bj
- Compliant with QSFP28 MSA and SFP28 MSA
- Compliant with SFF-8436 / SFF-8431 / SFF-8074i
- Hot plug swappable
- Single 3.3V power supply
- 0°C to 70°C case temperature operating range
- I²C management interface

Applications:

- Switches, Routers, and HBA
- Data Center
- Fiber Channel
- 25G/100G Gigabit Ethernet

QSFP28 Module Pad Assignments and Descriptions

38	GND	
37	TX1n	
36	TX1p	
35	GND	
34	TX3n	
33	TX3p	
32	GND	
31	LPMODE	
30	Vcc1	
29	VccTx	
28	IntL	
27	ModPrsL	
26	GND	
25	RX4p	
24	Rx4n	
23	GND	
22	RX2p	
21	RX2n	
20	GND	

Top Side
Viewed From Top

Module Card Edge

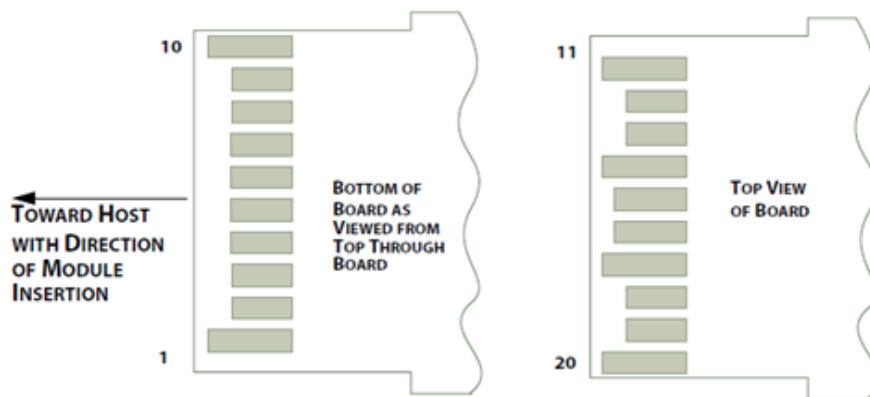
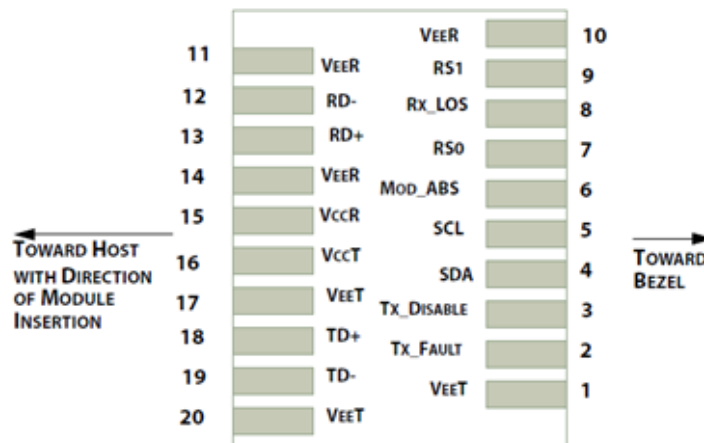
	GND	1
	TX2n	2
	TX2p	3
	GND	4
	TX4n	5
	TX4p	6
	GND	7
	ModselL	8
	ResetL	9
	VccRx	10
	SCL	11
	SDA	12
	GND	13
	RX3p	14
	Rx3n	15
	GND	16
	RX1p	17
	RX1n	18
	GND	19

Bottom Side
Viewed From Bottom

Pin	Logic	Symbol	Description	Notes
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		Vcc Rx	+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		Vcc Tx	+3.3V Power supply transmitter	

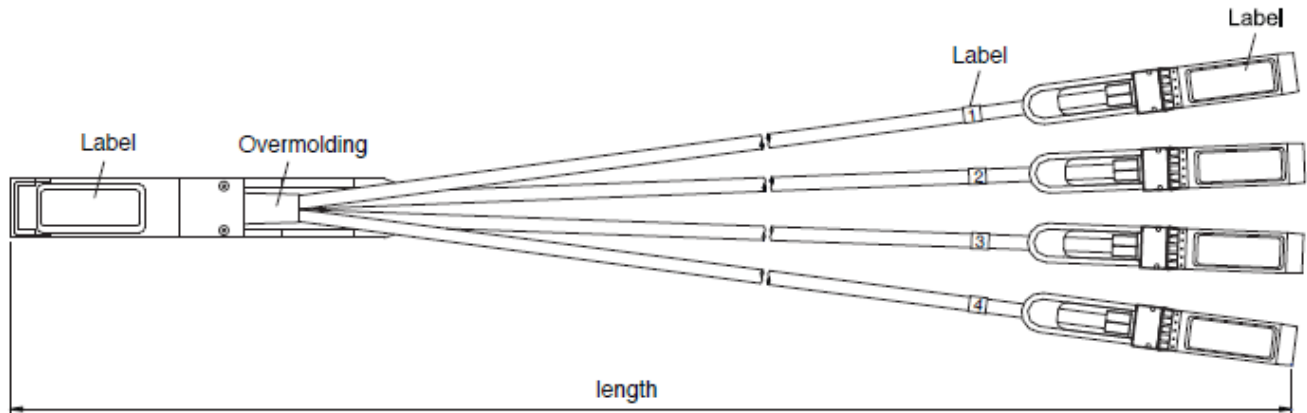
30		Vcc1	+3.3V Power supply
31	LVTTL-I	LPMode	Low Power Mode
32		GND	Ground
33	CML-I	Tx3p	Transmitter Non-Inverted Data Input
34	CML-I	Tx3n	Transmitter Inverted Data Input
35		GND	Ground
36	CML-I	Tx1p	Transmitter Non-Inverted Data Input
37	CML-I	Tx1n	Transmitter Inverted Data Input
38		GND	Ground

SFP28 Module Pad Assignments and Descriptions



PIN	Logic	Symbol	Name / Description	Note
1		VeeT	Module Transmitter Ground	1
2	LVTTL-O	TX_Fault	Module Transmitter Fault	
3	LVTTL-I	TX_Dis	Transmitter Disable; Turns off transmitter laser output	
4	LVTTL-I/O	SDA	2-Wire Serial Interface Data Line	2
5	LVTTL-I	SCL	2-Wire Serial Interface Clock	2
6		MOD_DEF0	Module Definition, Grounded in the module	
7	LVTTL-I	RS0	N/A	
8	LVTTL-O	RX_LOS	Receiver Loss of Signal Indication Active LOW	
9	LVTTL-I	RS1	N/A	
10		VeeR	Module Receiver Ground	1
11		VeeR	Module Receiver Ground	1
12	CML-O	RD-	Receiver Inverted Data Output	
13	CML-O	RD+	Receiver Data Output	
14		VeeR	Module Receiver Ground	1
15		VccR	Module Receiver 3.3 V Supply	
16		VccT	Module Transmitter 3.3 V Supply	
17		VeeT	Module Transmitter Ground	1
18	CML-I	TD+	Transmitter Non-Inverted Data Input	
19	CML-I	TD-	Transmitter Inverted Data Input	
20		VeeT	Module Transmitter Ground	1

Mechanical Drawing



Unit: mm

Ordering Information

Part No	Specification					
	Package	Data rate	Temp.	Gauge	Length*	Application
WS-Q84S-DACP0-1	Passive QSFP28 to SFP28	100G 4x25Gbps	0~70°C	30AWG	1m	25G/100G Gigabit Ethernet
WS-Q84S-DACP0-2	Passive QSFP28 to SFP28	100G 4x25Gbps	0~70°C	30AWG	2m	25G/100G Gigabit Ethernet
WS-Q84S-DACP0-3	Passive QSFP28 to SFP28	100G 4x25Gbps	0~70°C	30AWG	3m	25G/100G Gigabit Ethernet
WS-Q84S-DACP6-5	Passive QSFP28 to SFP28	100G 4x25Gbps	0~70°C	26AWG	5m	25G/100G Gigabit Ethernet

*Please contact our sales for more information

Modification History

Revision	Date	Description	Originator	Review	Approved
V1.0	17-Dec-2019	New Issue	Ivy Chen	Tom Tang	Tom Tang

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