

# 100Gb/S QSFP28 Direct Attach Cable

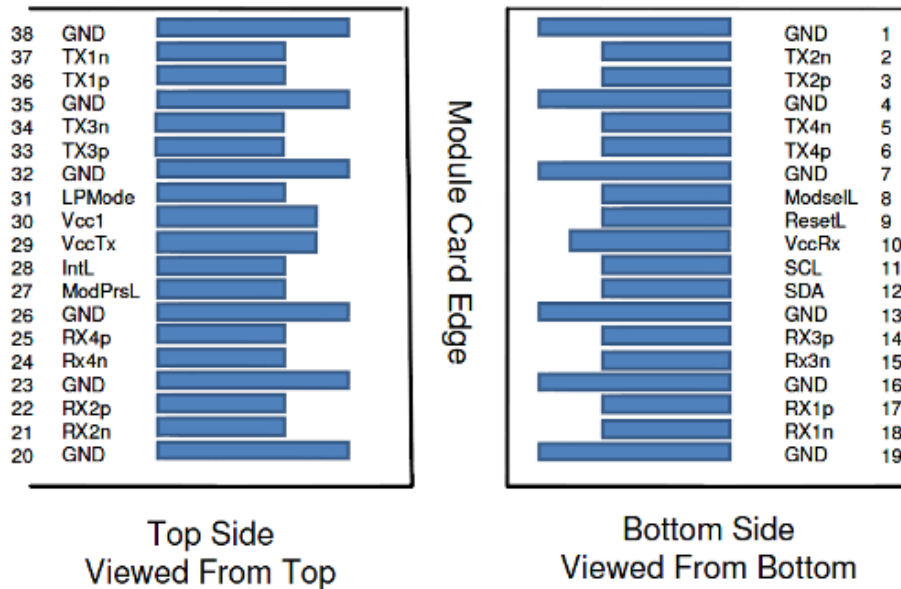
P/N: WS-QS28-DACPx-x



### Features:

- Compliant with IEEE 802.3bj
- Compliant with SFF-8436/SFF-8679/SFF8074i
- 4 independent full-duplex channels
- Up to 25.78125 Gbps data rate per channel
- Four independent full-duplex channels
- Single 3.3V power supply
- 0°C to 70°C case temperature operating range
- I<sup>2</sup>C management interface

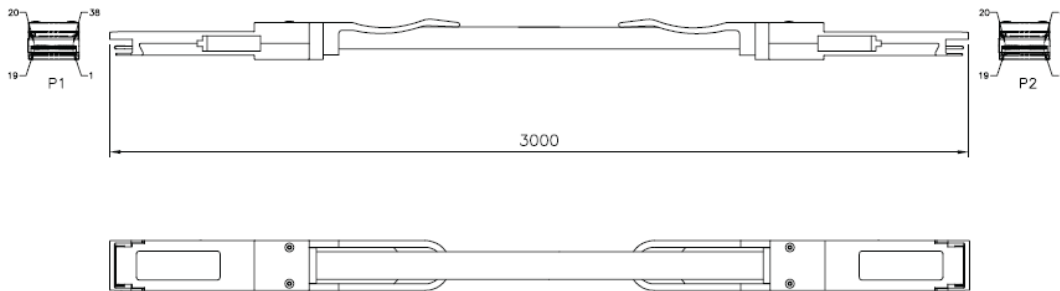
### QSFP28 Module Pad Assignments and Descriptions



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	

**Mechanical Design Diagram**



Unit: mm

**Ordering Information**

Part No	Specification					
	Package	Data rate per Lane	Temp.	Gauge	Length*	Application
WS-QS28-DACP0-H	QSFP28 Passive	25.78125 Gbps	0~70°C	30AWG	0.5m	100G Ethernet
WS-QS28-DACP0-1	QSFP28 Passive	25.78125 Gbps	0~70°C	30AWG	1m	100G Ethernet
WS-QS28-DACP0-2	QSFP28 Passive	25.78125 Gbps	0~70°C	30AWG	2m	100G Ethernet
WS-QS28-DACP0-3	QSFP28 Passive	25.78125 Gbps	0~70°C	30AWG	3m	100G Ethernet
WS-QS28-DACP6-5	QSFP28 Passive	25.78125 Gbps	0~70°C	26AWG	5m	100G Ethernet

\* Please contact our sales for customized length that is not listed in the above table.

**Modification History**

Revision	Date	Description	Originator	Review	Approved
V1	18-Sep-2017	New Issue	Ivy Chen	Wayne Liao	Wayne Liao



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