SFPTURKIYESTW0340GD-4x10G	**40G QSFP+ to 4x10G SFP+ Copper Twinax Cable 3 Meter, passive**
SFPTURKIYESTW0540GD-4x10G	**40G QSFP+ to 4x10G SFP+ Copper Twinax Cable 5 Meter, passive**

Features：

- High-Density QSFP 38-PIN and 4x SFP 20-PIN Connector
- Maximum aggregate data rate: 41.25 Gbps (4 x10.3125Gbit/s)
- Operating temperature: 0℃~70℃
- Single +3.3V power supply
- RoHS Compliant

Applications:

- 10G/40G Ethernet
- Compliant with SFF-8436, SFF-8431

Description:

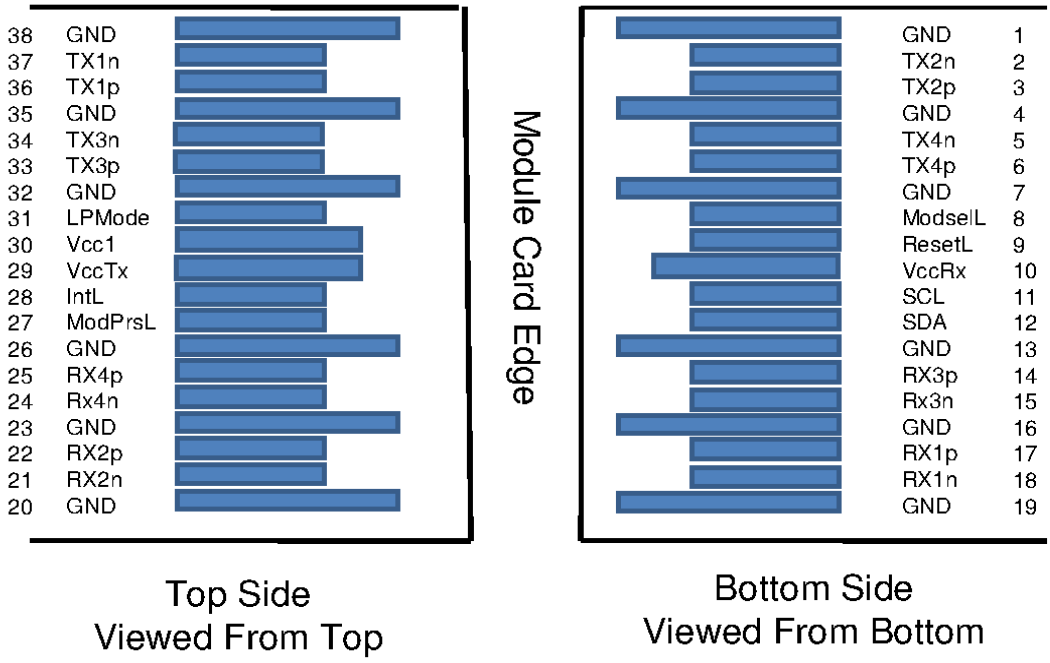
The QSFP+ to SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 40G Ethernet and 40G Fiber Channel applications. QSFP+ copper modules allow hardware manufactures to achieve high port density, configurability and utilization at a very low cast and reduced power budget. The cable each lane is capable of transmitting data at rates up to 10Gb/s, providing an aggregated rate of 40Gb/s.

General Product Characteristics

SFP+ DAC Specifications	
Number of Lanes	Tx & Rx
Channel Data Rate	10.3125 Gbps
Operating Temperature	0 to + 70°C
Storage Temperature	-40 to + 85°C
Supply Voltage	3.3 V nominal
Electrical Interface	38 pins edge connector(QSFP+)
Management Interface	Serial, I^2C

Pin Assignment

QSFP+ Pin Function Definition



Top Side
Viewed From Top

Bottom Side
Viewed From Bottom

Pin	Logic	Symbol	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		Vcc Rx	+3.3V Power Supply Receiver

11	LVCMOS-I/O	SCL	2-wire serial interface clock
12	LVCMOS-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

High Speed Characteristics

Parameter	Symbol	Min	Typ	Max	Units	Notes
Differential Impedance	Zd	90	100	110	Ω	
Differential Input Return Loss	SDDXX	<-12+2* SQRT (f) with f in GHz			dB	0.01~4.1GHz
		<-6.3+13* Log10/(f/5.5) with f in GHz			dB	4.1~11.1GHz
Common Mode Output Return Loss	SCCXX	< -7+1.6*f with f in GHz			dB	0.01~2.5GHz
				-3	dB	2.5~11.1GHz
Difference Waveform Distortion Penalty	dWDPc			6.75	dB	
VMA Loss	L			4.4	dB	
VMA Loss to Crosstalk Ratio	VCR	32.5			dB	

Mechanical Diagram

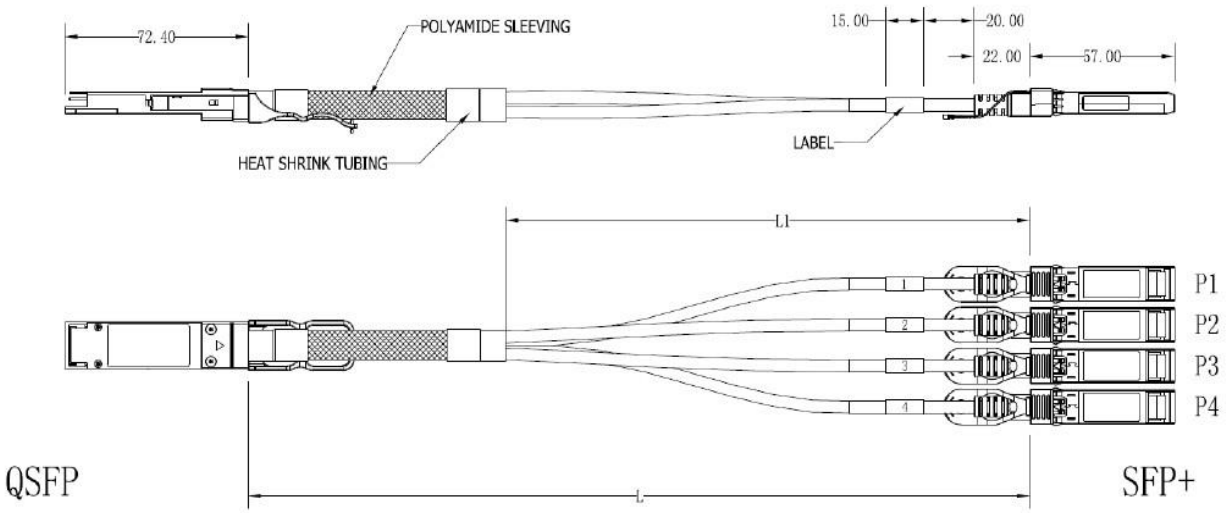


Figure 4, mechanical diagram

Regulatory Compliance

Feature	Test	Method
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1(>1000V for SFI pins, >2000Vfor other pins.)
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2	Class 2(>4.0kV)
Electromagnetic Interference (EMI)	CISPR22 ITE Class B FCC Class B CENELEC EN55022 VCCI Class 1	Comply with standard
Immunity	IEC61000-4-3	Comply with standard
Eye Safety	FDA 21CFR 1040.10 and 1040.11 EN (IEC) 60825-1,2	Compatible with Class I laser Product

Length (m)	Cable AWG
3	30
5	28

Ordering Information

Table 6-ordering information

Part Number	Description	Gauge (AWG)
SFPTURKIYESTW0340GD-4x10G	40G QSFP+ Copper Twinax Cable 3 Meter, passive	30
SFPTURKIYESTW0540GD-4x10G	40G QSFP+ Copper Twinax Cable 5 Meter, passive	28

- **Notice**

  SFPTURKEY Electronics İth. İhr. Tic. Ltd. Co. reserves the right to make changes to the product(s) or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.

E-mail: info@sfpturkey.com.tr

Web : http://www.sfpturkey.com.tr

http://www.sfpturkiye.com.tr

http://www.sfpturkey.com

http://www.sfpturkiye.com