

SFPTURKIYESTW0140GD SFPTURKIYESTW0240GD SFPTURKIYESTW0340GD SFPTURKIYESTW0540GD SFPTURKIYESTW0640GD SFPTURKIYESTW0740GD 40G QSFP+ Copper Twinax Cable 1 Meter, passive 40G QSFP+ Copper Twinax Cable 2 Meter, passive 40G QSFP+ Copper Twinax Cable 3 Meter, passive 40G QSFP+ Copper Twinax Cable 4 Meter, passive 40G QSFP+ Copper Twinax Cable 5 Meter, passive 40G QSFP+ Copper Twinax Cable 6 Meter, passive 40G QSFP+ Copper Twinax Cable 7 Meter, passive



Features:

- Up to 10. 3125Gbps data rate per channel
- Up to 7m transmission
- Operating temperature: 0°C~70°C
- Single +3.3V power supply
- RoHS Compliant

Applications:

- 40G Ethernet
- Compliant with SFF-8436, SFF-8431, SFF-8432 and SFF-8472

Description:

The QSFP+ 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 high speed cable assemblies meet and exceed Gigabit Ethernet and Fiber Channel industry standard requirements for performance and reliability.

General Product Characteristics

SFP+ DAC Specifications	
Number of Lanes	Tx & Rx
Channel Data Rate	10.3125 Gbps

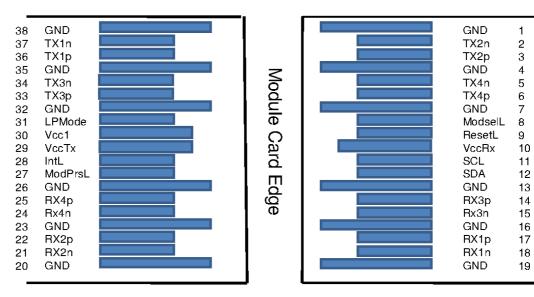




Operating Temperature	0 to + 70°C
Storage Temperature	-40 to + 85°C
Supply Voltage	3.3 V nominal
Electrical Interface	38 pins edge connector(QSFP+)
Management Interface	Serial, I ² C

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	LVCMO S- I/O	SCL	2-wire serial interface clock
12	LVCMO S- I/O	SDA	2-wire serial interface data
13		GND	Ground

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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 LVTTL-	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	Тх3р	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

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High Speed Characteristics

Parameter	Symbol	Min	Тур	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	
Retuil Loss				-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

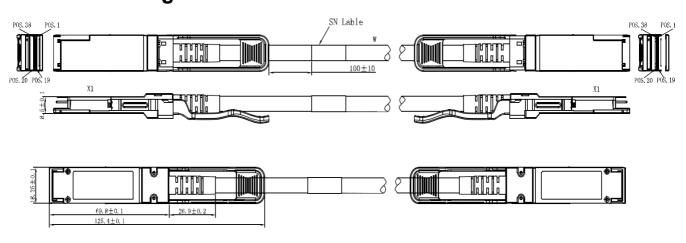


Figure 4, mechanical diagram



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
1	30/28/24
2	30/26
3	30/26
4	26
5	24/26
6	24
7	24

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Ordering Information

Table 6-ordering information

Part Number	Description	Gauge (AWG)
SFPTURKIYESTW0140GD	40G QSFP+ Copper Twinax Cable 1 Meter, passive	30/28/24
SFPTURKIYESTW0240GD	40G QSFP+ Copper Twinax Cable 2 Meter, passive	30/26
SFPTURKIYESTW0340GD	40G QSFP+ Copper Twinax Cable 3 Meter, passive	30/26
SFPTURKIYESTW0440GD	40G QSFP+ Copper Twinax Cable 4 Meter, passive	26
SFPTURKIYESTW0540GD	40G QSFP+ Copper Twinax Cable 5 Meter, passive	24/26
SFPTURKIYESTW0640GD	40G QSFP+ Copper Twinax Cable 6 Meter, passive	24
SFPTURKIYESTW0740GD	40G QSFP+ Copper Twinax Cable 7 Meter, passive	24

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