

QSFP-PC-4X10G

40GBASE, QSFP+ to 4X10G, Passive Copper Direct Attach Breakout Cable Assembly

Product Features

- QSFP+ 40GBASE Rated Connector (SFF-8436 Compliant)
- 4 x SFP+ 10GBASE Rated Connector (SFF-8431 Compliant)
- Up to 10.3125GBASE transfer rate per SFP+ channel
- Hot plug swappable
- Low power consumption: 0.02W (typ)
- Power Supply: +3.3V
- 30 AWG to 26 AWG cable sizes
- Low cross-talk and pair-to-pair skew maintains signal integrity
- RoHS Compliant
- Fully compliant to latest SFP+ & QSFP MSA
- Available Temperature ranges:
 - 0°C to +70°C



Product Applications

- 40/10 Gigabit Ethernet
- Enterprise & Data Center
- Infiniband4x SDR, DDR, QDR

I. Absolute Maximum Ratings

Exceeding the limits below may damage the transceiver module permanently.

Parameter	Symbol	Min.	Typ.	Max.	Units
Supply Voltage	VCC3	3.135	3.3	3.465	V
Storage Temperature	T _s	-40		85	°C
Voltage on LVTTTL Input		-0.3		VCC3 +0.2	V
Power Dissipation	PD			1.5	W

II. Operating Specifications

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0		70	°C
Power Supply Current	Icc3	70			mA
Total Power Consumption	Pd			0.5	W
Relative Humidity (non-condensation)	RS			85	%

III. Electrical & High-Speed Characteristics

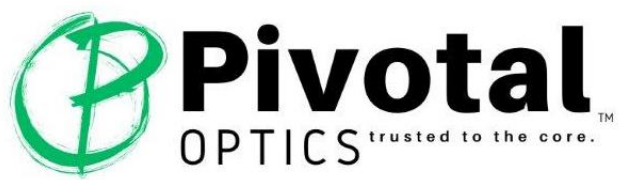
Parameter	Min.	Typ.	Max.	Units
QSFP+ Input (per lane)				
Single-ended input voltage tolerance	-0.3		4.0	V
SDD11 – Differential input return loss	Note 1			dB
SCD11 – Differential to common-mode input return loss	Note 2			dB
QSFP+ Output (per lane)				
Single-ended output voltage	-0.3		4.0	V
SDD22 – Differential output return loss	Note 1			dB
SCC22 – Common-mode output return loss	Note 3			dB

Notes:

1. SDD11/SDD22 differential return loss is measured at TP1 and TP4 as: $\{-12 + 2 \cdot \sqrt{f} \text{ @ } 0.01 \text{ to } 4.1 \text{ GHz} < -6.3 + 13 \cdot \log_{10}(f/5.5), \text{ with } f \text{ in GHz ; @ } 4.1 \text{ to } 11.1 \text{ GHz}\}$
2. SCD11 measured at TP1 $> 10 \text{ dB}$ { 10Mhz to 11.1GHz }
3. SCC22 – Common-mode output return loss at TP4 is defined as: $\{ 7 - 1.6f \text{ } 0.01 < f < 2.5, 3 \text{ } 2.5 < f < 11.1 \}$ f is the frequency in GHz

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IV. Ordering Information

Part Number Breakdown			
QSFP-PC-4X10G-XX			
Parameter	Min	Max	Notes
Cable Gauge (AWG)	26	30	
Cable Length (meters)	1	5	XX
Platform Advantage	Multi-Vendor coding options available upon request		

Notes:

1. Please contact sales for custom cable lengths and specific OEM Platform part numbers to fit your network.

Warranty

<https://pivotaloptics.com/warranty/>

Disclaimer

External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.