

34061485-C

Huawei® 34061485 Compatible TAA 40GBase-SR4 QSFP+ Transceiver (MMF, 850nm, 100m, MPO, DOM)

Features:

- SFF-8436 Compliance
- MPO Connector
- Multi-mode Fiber
- Commercial Temperature 0 to 70 Celsius
- Hot Pluggable
- Metal with Lower EMI
- Excellent ESD Protection
- RoHS Compliant and Lead Free



Applications:

- 40GBase Ethernet
- 4x10G Breakout Option
- Access and Enterprise

Product Description

This Huawei® 34061485 compatible QSFP+ transceiver provides 40GBase-SR4 throughput up to 150m over multi-mode fiber (MMF) using a wavelength of 850nm via an LC connector. It is guaranteed to be 100% compatible with the equivalent Huawei® transceiver. This easy to install, hot swappable transceiver has been programmed, uniquely serialized and data-traffic and application tested to ensure that it will initialize and perform identically. Digital optical monitoring (DOM) support is also present to allow access to real-time operating parameters. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

ProLabs' transceivers are RoHS compliant and lead-free.

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. — made or designated country end products."



Absolute Maximum Ratings

Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage	Vcc	-0.5		4.0	V
Storage Temperature	Tstg	-40		85	°C
Operating Case Temperature	Тс	0	25	70	°C
Relative Humidity	RH	5		95	%
Data Rate Per Channel			10.3125		Gbps

Electrical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes	
Supply Voltage	Vcc	3.135	3.3	3.465	V		
Module Supply Current	Icc			430	mA		
Power Dissipation	P _{DISS}			1.5	W		
Transmitter							
Input Differential Impedance	ZIN		100		Ω		
Differential Data Input Swing	VIN,pp	180		900	mVp-p		
Receiver							
Output Differential Impedance	ZOUT		100		Ω		
Differential Data Output Swing	VOUT,pp	300		850	mVp-p	1	
Data Output Rise Time/Fall Time	Tr/Tf	28			ps	2	

Notes:

- 1. Internally AC coupled but requires an external 100Ω differential load termination.
- 2. 20 80 %.

Optical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes	
Transmitter							
Launch Optical Power	Po	-7.6		+2.4	dBm	1	
Center Wavelength Range	λC	830	850	860	nm		
Extinction Ratio	ER	3			dB	2	
Spectral Width (RMS)	Δλ			0.65	nm		
Transmitter and Dispersion Penalty	TDP			3.2	dB		
Optical Return Loss Tolerance	ORLT			12	dB		
Eye Diagram	IEEE Std 802.3ba Compatible						
Receiver							
Center Wavelength	λC	830	850	860	nm		
Receiver Sensitivity (Pavg)	S			-9.5	dBm	3	
Damage Threshold	P _{OL}	2.5			dBm	3	
Optical Return Loss	ORL	12			dB		
LOS Assert	LOSA	-30			dBm		
LOS De-Assert	LOSD			-11	dBm		
LOS Hysteresis		0.5			dB		

Notes:

- 1. The optical power is launched into OM3 MMF.
- 2. Measured with a PRBS 2³¹-1 test pattern @10.3125Gbps.
- 3. Measured with PRBS 2^{31} -1 test pattern, 10.3125Gbps, and BER<10⁻¹².

Pin Descriptions

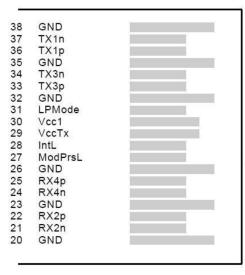
	Pin Descriptions								
Pin	Logic	Symbol	Name/Descriptions	Notes					
1		GND	Module Ground.	1					
2	CML-I	Tx2-	Transmitter Inverted Data Input.						
3	CML-I	Tx2+	Transmitter Non-Inverted Data Input.						
4		GND	Module Ground.	1					
5	CML-I	Tx4-	Transmitter Inverted Data Input.						
6	CML-I	Tx4+	Transmitter Non-Inverted Data Input.						
7		GND	Module Ground.	1					
8	LVTTL-I	ModSelL	Module Select.	2					
9	LVTTL-I	ResetL	Module Reset.	2					
10		VccRx	+3.3V Receiver Power Supply.						
11	LVCMOS-I	SCL	2-Wire Serial Interface Clock.	2					
12	LVCMOS-I/O	SDA	2-Wire Serial Interface Data.	2					
13		GND	Module Ground.	1					
14	CML-O	Rx3+	Receiver Non-Inverted Data Output.						
15	CML-O	Rx3-	Receiver Inverted Data Output.						
16		GND	Module Ground.	1					
17	CML-O	Rx1+	Receiver Non-Inverted Data Output.						
18	CML-O	Rx1-	Receiver Inverted Data Output.						
19		GND	Module Ground.	1					
20		GND	Module Ground.	1					
21	CML-O	Rx2-	Receiver Inverted Data Output.						
22	CML-O	Rx2+	Receiver Non-Inverted Data Output.						
23		GND	Module Ground.	1					
24	CML-O	Rx4-	Receiver Inverted Data Output.	1					
25	CML-O	Rx4+	Receiver Non-Inverted Data Output.						
26		GND	Module Ground.	1					
27	LVTTL-O	ModPrsL	Module Present. Internally pulled down to GND.						
28	LVTTL-O	IntL	Interrupt Output. Should be pulled up on the host board.						
29		VccTx	+3.3V Transmitter Power Supply.						
30		Vcc1	+3.3V Power Supply.						
31	LVTTL-I	LPMode	Low-Power Mode.						
32		GND	Module Ground.						
33	CML-I	Tx3+	Transmitter Non-Inverted Data Input.						
34	CML-I	Tx3-	Transmitter Inverted Data Input.						
	-1		ı	1					

35		GND	Module Ground.	1
36	CML-I	Tx1+	Transmitter Non-Inverted Data Input.	
37	CML-I	Tx1-	Transmitter Inverted Data Input.	
38		GND	Module Ground.	1

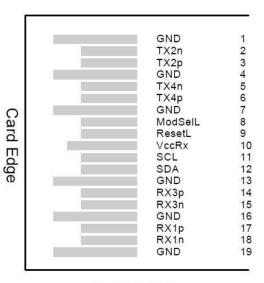
Notes:

- 1. The module signal grounds are isolated from the module case.
- 2. This is an open collector/drain output that on the host board requires a $4.7k\Omega$ - $10k\Omega$ pull-up resistor to the Host_Vcc.

Electrical Pin-Out Details

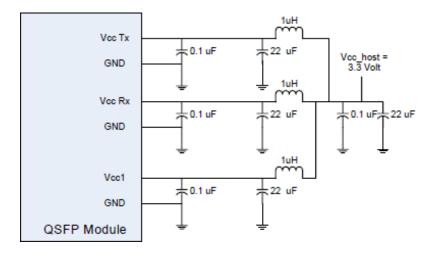


Top Side Viewed from Top

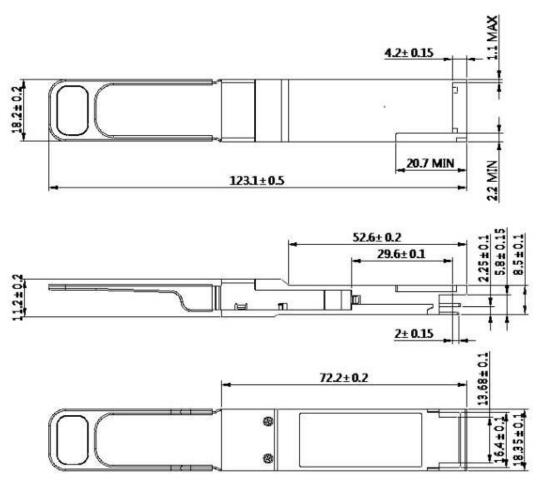


Bottom Side Viewed from Bottom

Recommended Host Board Power Supply Filter Network



Mechanical Specifications



About ProLabs

Our experience comes as standard; for over 15 years ProLabs has delivered optical connectivity solutions that give our customers freedom and choice through our ability to provide seamless interoperability. At the heart of our company is the ability to provide state-of-the-art optical transport and connectivity solutions that are compatible with over 90 optical switching and transport platforms.

Complete Portfolio of Network Solutions

ProLabs is focused on innovations in optical transport and connectivity. The combination of our knowledge of optics and networking equipment enables ProLabs to be your single source for optical transport and connectivity solutions from 100Mb to 400G while providing innovative solutions that increase network efficiency. We provide the optical connectivity expertise that is compatible with and enhances your switching and transport equipment.

Trusted Partner

Customer service is our number one value. ProLabs has invested in people, labs and manufacturing capacity to ensure that you get immediate answers to your questions and compatible product when needed. With Engineering and Manufacturing offices in the U.K. and U.S. augmented by field offices throughout the U.S., U.K. and Asia, ProLabs is able to be our customers best advocate 24 hours a day.















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