

FTLF1326P3BTL-OPC

Finisar® FTLF1326P3BTL Compatible TAA Compliant 6GBase-LW SFP+ Transceiver (SMF, 1310nm, 2km, LC, DOM)

Features

- SFF-8432 and SFF-8472 Compliance
- Duplex LC Connector
- Single-mode Fiber
- Commercial Temperature 0 to 70 Celsius
- Hot Pluggable
- Metal with Lower EMI
- Excellent ESD Protection
- RoHS Compliant and Lead Free



Applications:

- 6GBase Ethernet
- Access and Enterprise

Product Description

This Finisar® FTLF1326P3BTL compatible SFP+ transceiver provides 6GBase-LW throughput up to 2km over single-mode fiber (SMF) using a wavelength of 1310nm via an LC connector. It is guaranteed to be 100% compatible with the equivalent Finisar® 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.

OptioConnect's 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 internaltional 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
Storage Temperature	Tstg	-40		85	°C
Relative Humidity	RH	5		95	%
Supply Voltage	Vcc	-0.5		4.0	V
Operating Temperature	Тс	0	25	70	°C
Data Rate			6.144		Gbps

Electrical Characteristics

Parameter		Symbol	Min.	Тур.	Max.	Unit	Notes	
Module Supply (Current	Icc			300	mA		
Power Dissipation	n	P _{DISS}			1000	mW		
Supply Voltage		Vcc	3.135	3.3	3.465	V		
Transmitter								
Input Differentia	l Impedance	ZIN		100		Ω		
Differential Data	Input Swing	VIN,pp	180		700	mVp-p		
Tx_Fault	Transmitter Fault	VOH	2.0		Host_Vcc	V		
	Normal Operation	VOL	0		0.8	V		
T 811.1.	Transmitter Disable	VIH	2.0		Host_Vcc	V		
Tx_Disable	Transmitter Enable	VIL	0		0.8	V		
Receiver								
Output Differential Impedance		ZOUT		100		Ω		
Differential Data Output Swing		VOUT,pp	300		850	mVp-p	1	
Data Output Rise	e/Fall Time	Tr/Tf	28			ps	2	
Rx_LOS	Loss of Signal (LOS)	VOH	2.0		Host_Vcc	V	3	
	Normal Operation	VOL	0		0.8	V	3	

Notes:

- 1. Internally AC coupled but requires an external 100Ω differential load termination.
- 2. 20-80%.
- 3. LOS is an open collector output that should be pulled up with $4.7k\Omega$ on the host board.

Optical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes
Transmitter						
Launch Optical Power	Po	-8.2		+0.5	dBm	1
Center Wavelength Range	λC	1260	1310	1355	nm	
Extinction Ratio	ER	3.5			dB	2
Optical Modulation Amplitude	OMA	-5.2			dBm	
Spectral Width (-20dB)	Δλ			1	nm	
Side-Mode Suppression Ratio	SMSR	30			dB	
Transmitter and Dispersion Penalty	TDP			3.2	dB	
Optical Return Loss Tolerance	ORLT			12	dB	
POUT @Tx_Disable Asserted	Poff			-30	dBm	1
Eye Diagram		IEEE Std 802.3	3-2005 10Gb E	thernet 10GBA	SE-LR Compati	ble
Receiver						
Center Wavelength	λC	1260	1310	1355	nm	
Receiver Sensitivity (Pavg)	S			-14.4	dBm	3
Receiver Sensitivity (POMA)	S _{OMA}			-12.6	dBm	3
Receiver Overload (Pavg)	P _{OL}	0.5			dBm	3
Stressed Sensitivity (OMA)				-10.3	dBm	
Optical Return Loss	ORL	12			dB	
LOS De-Assert	LOSD			-17	dBm	
LOS Assert	LOSA	-30			dBm	
LOS Hysteresis		0.5			dB	

Notes:

- The optical power is launched into 9/125μm SMF.
 Measured with a PRBS 2³¹-1 test pattern @6.144Gbps.
 Measured with PRBS 2³¹-1 test pattern @6.144Gbps with BER<10⁻¹².

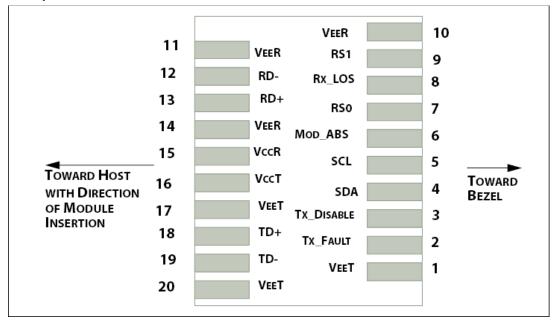
Pin Descriptions

Pin	Symbol	Name/Description	Notes
1	VeeT	Transmitter Ground.	1
2	Tx_Fault	Transmitter Fault (LVTTL-O). "High" indicates a fault condition.	2
3	Tx_Disable	Transmitter Disable (LVTTL-I). "High" or "open" disables the transmitter.	3
4	SDA	2-Wire Serial Interface Data (LVCMOS-I/O) (MOD-DEF2).	4
5	SCL	2-Wire Serial Interface Clock (LVCMOS-I/O) (MOD-DEF1).	4
6	MOD_ABS	Module Absent (Output). Connected to the VeeT or VeeR in the module.	5
7	RS0	Rate Select 0. Not used. Presents high input impedance.	
8	Rx_LOS	Receiver Loss of Signal (LVTTL-O).	2
9	RS1	Rate Select 1. Not Used. Presents high input impedance.	
10	VeeR	Receiver Ground.	1
11	VeeR	Receiver Ground.	1
12	RD-	Inverse Received Data Out (CML-O).	
13	RD+	Received Data Out (CML-O).	
14	VeeR	Receiver Ground.	
15	VccR	+3.3V Receiver Power.	
16	VccT	+3.3V Transmitter Power.	
17	VeeT	Transmitter Ground.	1
18	TD+	Transmitter Data In (CML-I).	
19	TD-	Inverse Transmitter Data In (CML-I).	
20	VeeT	Transmitter Ground.	1

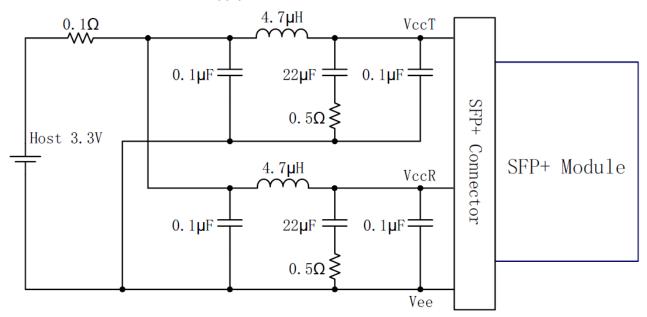
Notes:

- 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 $4.7k\Omega$ to $10k\Omega$ pull-up resistor to the Host_Vcc.
- 3. This input is internally biased "high" with a $4.7k\Omega$ to $10k\Omega$ pull-up resistor to the VccT.
- 4. 2-Wire Serial Interface Clock and Data lines require an external pull-up resistor dependent on the capacitance load.
- 5. This is a ground return that, on the host board, requires a $4.7k\Omega$ to $10k\Omega$ pull-up resistor to the Vcc_Host.

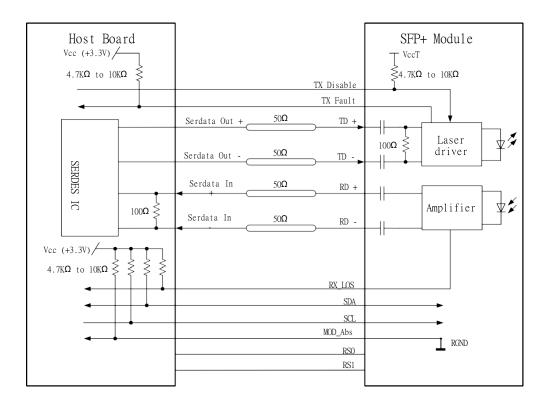
Electrical Pad Layout



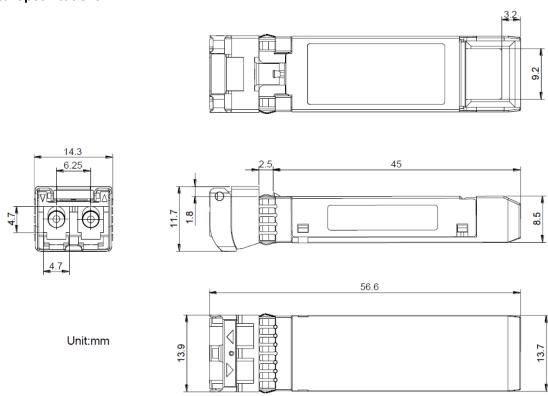
Recommended Host Board Power Supply Filter Network



Recommended Application Interface Block Diagram



Mechanical Specifications



OptioConnect

Innovation for the Future of High-Speed Networking

Who We Are

OptioConnect is reshaping the landscape of communication and high-speed networking through intelligent technology. With a core focus on cutting edge technology, we deliver smarter fiber optic solutions for enterprise networks, data centers, and next-gen telecom infrastructures.

What We Do

At OptioConnect, we fuse advanced engineering with intelligent automation to drive the future of networking. Our Al-integrated solutions are designed to optimize performance and streamline operations with:

- Superior Performance
- Network and traffic optimization
- Intelligent energy management
- Seamless OEM compatibility
- Scalable cost-efficiency

Smarter Networks by Design

Innovation isn't just a goal—it's our process. We embed AI and machine learning across our R&D and product lines, enabling adaptive performance, automated tuning, and faster deployment cycles. The result? Networks that don't just work—they learn, evolve, and outperform.

Our Team

Our engineers, data scientists, and network architects bring decades of experience and a future-focused mindset. We provide hands-on support with intelligent insights that turn complex challenges into simple solutions.

Our Mission

To deliver AI-enhanced connectivity that reduces cost, increases speed, and maximizes efficiency—empowering our partners to operate at the forefront of a rapidly evolving digital world.

Let's Connect

Discover how OptioConnect's intelligent infrastructure solutions can power your network's next leap forward. www.optioconnect.com | info@optioconnect.com







