

Features:

- Up to 25.78Gb/s data links
- Up to 10km transmission on SMF
- DFB Laser and PIN receiver
- Build-in dual CDR with TX and RX
25G/10G Auto-speed Switch
- Metal enclosure, for lower EMI
- 2-wire interface with integrated Digital Diagnostic monitoring
- Hot-pluggable SFP28 footprint
- Compliant with SFF-8402 with LC connector
- Single 3.3V power supply
- Power dissipation < 1.5 W
- Operating case temperature: 0°C to +70°C



- 25GBASE-LR
- eCPRI and CPRI

Standard:

- Compliant with SFF-8472 & 8431 eCPRI and CPRI
- RoHS Compliant.

1. Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Storage Temperature	Ts	-40	-	85	°C	
Relative Humidity	RH	5	-	95	%	
Power Supply Voltage	VCC	-0.3	-	4	V	
Signal Input Voltage	VSI	Vcc-0.3	-	Vcc+0.3	V	
Rx Damage Threshold	PRdmg	3			dBm	

2. Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Case Operating Temperature	Tcase	0	-	70	°C	
Power Supply Voltage	VCC	3.14	3.3	3.47	V	
Power Supply Current	ICC	-		360	mA	
Data Rate	BR		25.78		Gbps	TX Rate/ RX Rate
Transmission Distance	TD			10	km	
Coupled fiber	Single mode fiber					9/125um SMF

3. Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Transmitter						
Average Launched Power	PO	-7.0		+2.0	dBm	
Average Launched Power (Laser Off)	Poff	-	-	-30	dBm	
Center Wavelength Range	λ_C	1295	1310	1325	nm	
Spectrum Bandwidth (-20dB)	$\Delta\lambda$	-	-	1	nm	
Side-Mode Suppression Ratio	SMSR	30	-	-	dB	
Extinction Ratio	ER	3.0		-	dB	1
Output Eye Mask	{0.31,0.4,0.45,0.34,0.38,0.4}					
Receiver						
Input Optical Wavelength	λ_{IN}	1295	-	1325	nm	
Receiver Sensitivity (Average power)	Psen	-	-	-13.3	dBm	2
Input Saturation Power (Overload)	PSAT	2.0	-	-	dBm	2
Los Of Signal Assert	PA	-30	-	-	dBm	
Los Of Signal De-assert	PD	-	-	-16	dBm	
LOS -Hysteresis	PHys	0.5		6	dB	

Note:

1. Measured with a PRBS 231-1 test pattern, @25.78Gb/s.
2. Measured with Light source 1310nm, ER=3.0dB; BER = 5×10^{-5} @PRBS=231-1 NRZ.

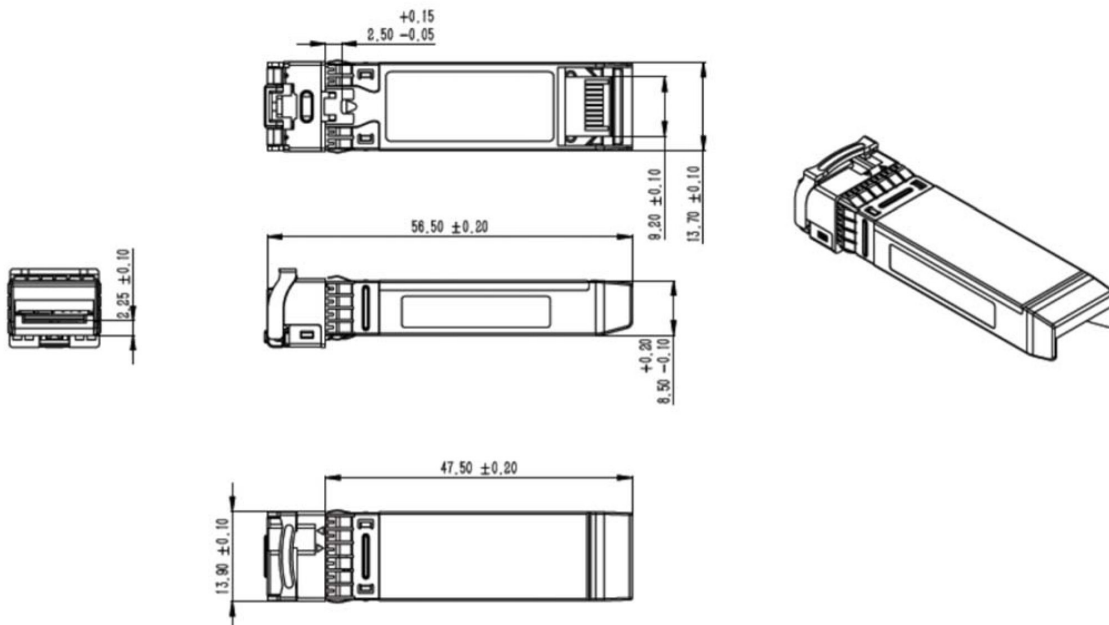
4. Electrical Interface Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Transmitter						
Input differential impedance	Rin		100		Ω	1
Single ended data input swing	Vin,pp	180		700	mV	
Transmitter Fault Output-High	VFaultH	2	-	Vcc+0.3	V	
Transmitter Fault Output-Low	VFaultL	0	-	0.8	V	
Transmitter Disable Voltage- High	VDisH	2	-	Vcc+0.3	V	
Transmitter Disable Voltage- low	VDisL	0	-	0.8	V	
Receiver						
Differential data output swing	Vout,pp	300		850	mV	2
LOS Output Voltage-High	VLOSH	2	-	Vcc+0.3	V	
LOS Output Voltage-Low	VLOSL	0	-	0.8	V	

Notes:

1. Connected directly to TX data input pins. AC coupled thereafter.
2. Into 100 ohms differential termination.

5. Mechanical Diagram



Note: 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.

6. Ordering Information

OEM	Part Number	OEM2	Part Number2
Arista	SFP-25G-MR-LR-A	Finisar	FTLF1436P4PCV-A
Cisco	SFP-10/25G-LR-A	OnePort	OP-SFP1025G-LR
Cisco	SFP-10/25G-LR-I-A	OnePort	OP-SFP1025G-LR-I
Finisar	FTLF1436P4BCV-A		

7. Contact Information

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