Super SFP SR 25Gbps Optical Transceiver

OVERVIEW

Luxshare-TECH 25Gbps S-SFP optical transceiver is designed for 25G Ethernet links with very high port density based on the new electrical and mechanical specification for the SFF-8431 and SFF-8432 respectively. The transceiver utilizes 850nm VCSEL and PIN Detect technology to provide the 70m and 100m links on OM3 and OM4 MMF respectively.

FEATURES & BENEFITS

◆ Hot Pluggable SFP form factor

◆ Supports auto-rate detection for both 25.78125Gbps and 10.3125Gbps operation

◆ Up to 70m transmission with OM3 multimode fiber

◆ Up to 100m transmission with OM4 multimode fiber

◆ 850nm VCSEL Laser/PIN Photo Detector

◆ Low Power Dissipation, MAX 0.8W

◆ Operating Case Temperature: 0℃ to +70℃

PRODUCT APPLICATIONS

Ethernet for 25/10GBASE-SR

InfiniBand EDR, FDR, QDR

Proprietary Interconnections

Super SFP SR 25Gbps Optical Transceiver

TECHNICAL INFORMATION

MATERIAL

Nickel plated zinc die cast shells & latching

Mechanism parts

Optical plastic lens

MECHANICAL PERFORMANCE

SFP Module Insertion: 18N(MAX)

SFP Module Extraction: 12.5N(MAX)

SFP Module Retention: 90N to 170N

Insertion and removal cycles: 50Cycles

ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V（3.14 to 3.46V）

Data rate per lane: 25.78125Gbps

Power Consumption: 0.8W(MAX)

Transmitter Type: VCSEL

Receiver Type: PIN

ENVIRONMENTAL

Storage Temperature Range:-40℃ to +85℃

Operating Temperature Range:0℃ to +70℃

Relative Humidity:0 to 85%

SPECIFICATIONS

SFF-8419: Low Speed Electrical

SFF-8432: Pluggable Module

SFF-8472: Management Interface

GR-468: Reliability Qualification

IEEE 802.3by: Physical Layer Specifications and Management Parameters

ROHS-6: Environment Safety

ES-12-00-0011

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA02SMA01-SD-R	S-SFP	SR	70m(OM3)/100m(OM4)	Ethernet	25Gbps	0-70℃	0.8W	LC	VCSEL	PIN	850nm
PCR2SMA02-SD-R	S-SFP	SW	70m(OM3)/100m(OM4)	Fiber Channel	28Gbps	0-70℃	0.8W	LC	VCSEL	PIN	850nm