

## Super SFP CWDM 25G 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 CWDM transceiver support the link distance up to 10km over SMF for the wavelength of 1271nm, 1291nm, 1311nm and 1331nm.

### FEATURES & BENEFITS

- ◆ Hot Pluggable SFP form factor
- ◆ Supports 25.78125Gbps
- ◆ Up to 10km transmission with single-Mode fiber
- ◆ CWDM DFB Laser/PIN Photo Detector
- ◆ Low Power Dissipation, MAX 1.2W
- ◆ Operating Case Temperature: -40°C to +85°C

### PRODUCT APPLICATIONS

Ethernet for 25GBASE-LR  
InfiniBand EDR  
Proprietary Interconnections

# Super SFP CWDM 25G Optical Transceiver

## TECHNICAL INFORMATION

### MATERIAL

Nickel plated zinc die cast shells & latching  
Mechanism parts  
Optical plastic lens

### ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)  
Data rate per lane: 25.78125Gbps  
Power Consumption: 1.2W(MAX)  
Transmitter Type: DFB  
Receiver Type: PIN

### SPECIFICATIONS

SFF-8419: Low Speed Electrical  
SFF-8432: Pluggable Module  
SFF-8472: Management Interface  
Compliant to Class 1 Laser Safety  
GR-468: Reliability Qualification  
IEEE 802.3cc: Physical Layer Specifications and Management Parameters  
ROHS-6: Environment Safety  
ES-12-00-0008

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA02SSD3H-NC-R	S-SFP	CWDM	10km	Ethernet	25Gbps	-40-85°C	1.2W	LC	DFB	PIN	1271nm
PA02SSD4H-NC-R	S-SFP	CWDM	10km	Ethernet	25Gbps	-40-85°C	1.2W	LC	DFB	PIN	1291nm
PA02SSD5H-NC-R	S-SFP	CWDM	10km	Ethernet	25Gbps	-40-85°C	1.2W	LC	DFB	PIN	1311nm
PA02SSD6H-NC-R	S-SFP	CWDM	10km	Ethernet	25Gbps	-40-85°C	1.2W	LC	DFB	PIN	1331nm

### MECHANICAL PERFORMANCE

SFP Module Insertion: 18N(MAX)  
SFP Module Extraction: 12.5N(MAX)  
SFP Module Retention: 90N to 170N  
Insertion and removal cycles: 50Cycles

### ENVIRONMENTAL

Storage Temperature Range: -40°C to +85°C  
Operating Temperature Range: 0°C to +70°C/ -40°C to +85°C  
Relative Humidity: 0 to 85%