

## Super QSFP-DD 200G Active Optical Cable



### OVERVIEW

Luxshare-TECH 200Gbps S-QSFP-DD active optical cable can provide new generation performance of high density optical interconnection by higher data transmission bandwidth.

The S-QSFP-DD AOC operates over multimode fiber cable by using a nominal wavelength of 850nm VCSEL laser. The S-QSFP-DD AOC cable length can be customized to various length. There are eight channel signal lanes in each direction with 200Gbps aggregate bandwidth. The electrical interface is mated with 76-pin standard connector. And all the design is based on the industry standard specifications, such as SFF-8679, SFF-8636 and QSFP-DD MSA specification.

### FEATURES & BENEFITS

- ◆ Hot Pluggable QSFP-DD Cable End
- ◆ Supports auto-rate detection for both 25.78125Gbps and 10.3125Gbps operation
- ◆ Low Power Dissipation, MAX 3.5W Each End
- ◆ Operating Case Temperature: 0°C to +70°C / -5°C to +85°C

### PRODUCT APPLICATIONS

Ethernet for 2x40/100GBASE-SR4  
HPC Interconnects  
Proprietary Interconnections

### TECHNICAL INFORMATION

#### MATERIAL

Nickel plated zinc die cast shells & latching  
Mechanism parts  
Thermoplastic cable pull tab  
Optical plastic lens  
Optical fibre cable  
Cable outer Diameter: 2.9 to 3.0mm

#### MECHANICAL PERFORMANCE

QSFP-DD Module Insertion: 90N(MAX)  
QSFP-DD Module Extraction: 50N(MAX)  
QSFP-DD Module Retention: 90N(MIN)  
Insertion and removal cycles: 50Cycles

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## ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)  
 Data rate per lane: 25.78125Gb/s and 10.3125Gb/s  
 Power Consumption: 3.5W(MAX)  
 Transmitter Type: VCSEL  
 Receiver Type: PIN

## ENVIRONMENTAL

Storage Temperature Range: -40°C to +85°C  
 Operating Temperature Range: 0°C to 70°C/-5°C to 85°C  
 Relative Humidity: 0 to 85%

## SPECIFICATIONS

SFF-8636 Management Interface  
 SFF-8661: Pluggable Module  
 SFF-8679: General Electrical  
 IEEE 802.3bm: Physical Layer Specifications and Management Parameters  
 ROHS-6: Environment Safety  
 ES-12-00-0026

## Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA0DD2101-SD-R	S-QSFP-DD	AOC	1m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2301-SD-R	S-QSFP-DD	AOC	3m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2401-SD-R	S-QSFP-DD	AOC	5m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2501-SD-R	S-QSFP-DD	AOC	7m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2601-SD-R	S-QSFP-DD	AOC	10m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2701-SD-R	S-QSFP-DD	AOC	15m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2801-SD-R	S-QSFP-DD	AOC	20m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD2901-SD-R	S-QSFP-DD	AOC	30m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD210E-SD-R	S-QSFP-DD	AOC	1m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD230E-SD-R	S-QSFP-DD	AOC	3m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD240E-SD-R	S-QSFP-DD	AOC	5m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD250E-SD-R	S-QSFP-DD	AOC	7m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD260E-SD-R	S-QSFP-DD	AOC	10m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD270E-SD-R	S-QSFP-DD	AOC	15m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD280E-SD-R	S-QSFP-DD	AOC	20m	Ethernet	200Gbps	-5-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD210H-SD-R	S-QSFP-DD	AOC	1m	Ethernet	200Gbps	-20-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD230H-SD-R	S-QSFP-DD	AOC	3m	Ethernet	200Gbps	-20-85°C	3.5W	NA	VCSEL	PIN	850nm
PA0DD240H-SD-R	S-QSFP-DD	AOC	5m	Ethernet	200Gbps	-20-85°C	3.5W	NA	VCSEL	PIN	850nm
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