

## Super QSFP 100G Fanout Active Optical Cable



### OVERVIEW

Luxshare-TECH 100GE S-QSFP 100G to 4x 25Gbps S-SFP active optical cables can provide high-performance by combining four channels operating at speeds up to 25Gbps per lane for S-QSFP and S-SFP equipment interconnect.

Luxshare-TECH S-QSFP to 4x S-SFP is a high performance optical cable that provide flexible interconnection among multi-device for data center deployment. The fan-out AOC operate over multimode fiber cable by using a nominal wavelength of 850nm VCSEL laser. The AOC cable length can be customized to various length. This cable is fully compliant with existing industry standard specifications such as the QSFP MSA and SFP MSA.

### FEATURES & BENEFITS

- ◆ Four-channel full-duplex active optical cable from S-QSFP to four S-SFP
- ◆ Supports 25.78125Gbps per channel
- ◆ Low Power Dissipation, MAX 1.8W on
- ◆ S-QSFP end, MAX. 0.8W on S-SFP end.
- ◆ Operating Case Temperature: 0°C to +70°C / -5°C to +85°C

### PRODUCT APPLICATIONS

Ethernet for 4x25G  
InfiniBand EDR

## TECHNICAL INFORMATION

### MATERIAL

Nickel plated zinc die cast shells & latching  
Mechanism parts  
Thermoplastic cable pull tab  
Optical plastic lens  
Optical fibre cable

### MECHANICAL PERFORMANCE

S-QSFP Module Insertion: 40N(MAX)  
S-QSFP Module Extraction: 30N(MAX)  
S-QSFP Module Retention: 90N(MIN)  
S-SFP Module Insertion: 18N(MAX)  
S-SFP Module Extraction: 12.5N(MAX)  
S-SFP Module Retention: 90N to 170N  
Insertion and removal cycles: 50Cycles  
Cable outer Diameter: 2.9 to 3.0mm

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## ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)  
 Data rate per lane: 25.78125Gbps  
 Power Consumption(S-QSFP): 1.8W(MAX)  
 Power Consumption(S-SFP): 0.8W(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

GR-468: Reliability Qualification  
 ROHS-6: Environment Safety  
 QSFP+ form factor compliance to  
 SFF-8679 electrical interface  
 SFF-8661 Pluggable Module  
 SFF-8636 Management Interface  
 IEEE 802.3bm: Physical Layer Specifications and Management Parameters  
 SFP+ form factor compliance to  
 SFF-8431 General Electrical  
 SFF-8472 Management Interface  
 SFF-8432 Pluggable Module  
 IEEE 802.3ae: Physical Layer Specifications and Management Parameters  
 ES-12-00-0023

## Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA0QS1101-SD-R	S-QSFP/S-SFP	AOC	1m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1301-SD-R	S-QSFP/S-SFP	AOC	3m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1401-SD-R	S-QSFP/S-SFP	AOC	5m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1501-SD-R	S-QSFP/S-SFP	AOC	7m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1601-SD-R	S-QSFP/S-SFP	AOC	10m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1701-SD-R	S-QSFP/S-SFP	AOC	15m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1801-SD-R	S-QSFP/S-SFP	AOC	20m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1802-SD-R	S-QSFP/S-SFP	AOC	25m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1901-SD-R	S-QSFP/S-SFP	AOC	30m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1902-SD-R	S-QSFP/S-SFP	AOC	70m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS1903-SD-R	S-QSFP/S-SFP	AOC	100m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS110E-SD-R	S-QSFP/S-SFP	AOC	1m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS120E-SD-R	S-QSFP/S-SFP	AOC	2m	Ethernet	100G	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS130E-SD-R	S-QSFP/S-SFP	AOC	3m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS140E-SD-R	S-QSFP/S-SFP	AOC	5m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS150E-SD-R	S-QSFP/S-SFP	AOC	7m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS160E-SD-R	S-QSFP/S-SFP	AOC	10m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS170E-SD-R	S-QSFP/S-SFP	AOC	15m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS180E-SD-R	S-QSFP/S-SFP	AOC	20m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm
PA0QS190E-SD-R	S-QSFP/S-SFP	AOC	70m	Ethernet	100Gbps	-5-85°C	1.8(S-QSFP)/0.8(S-SFP)	NA	VCSEL	PIN	850nm