

Super QSFP 100G Active Optical Cable



OVERVIEW

Luxshare-TECH 100Gbps S-QSFP active optical cables can provide high-performance, good quality and consistent service.

Luxshare-TECH AOC is a high-performance optical cable for short-reach communication and interconnect applications. The AOC operate over multimode fiber cable by using a nominal wavelength of 850nm VCSEL laser. There are four channel signal lanes in each direction with 100Gbps aggregate bandwidth. Each lane operates at 25.78125Gbps, it also supports the 4x25G InfiniBand EDR application, Ethernet and user-defined protocol application. The electrical interface is mated with the standard 38-pin connector.

FEATURES & BENEFITS

- ◆ Hot Pluggable QSFP Cable End
- ◆ Supports 25.78125Gbps per channel
- ◆ Low Power Dissipation, MAX 1.8W Each End
- ◆ Operating Case Temperature: 0°C to +70°C/-5°C to +85°C

PRODUCT APPLICATIONS

Ethernet for 100GBASE-SR4
InfiniBand EDR, FDR, & QDR
Proprietary Interconnections

TECHNICAL INFORMATION

MATERIAL

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

ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)
Data rate per lane: 25.78125Gbps
Power Consumption: 1.8W(MAX) each end
Transmitter Type: VCSEL
Receiver Type: PIN

MECHANICAL PERFORMANCE

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

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%

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SPECIFICATIONS

SFF-8636 Management Interface

SFF-8661: Pluggable Module

SFF-8679: General Electrical

GR-468: Reliability Qualification

IEEE 802.3bm: Physical Layer Specifications and Management Parameters

ROHS-6: Environment Safety

ES-12-00-0035

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA0QQ1102-SD-R	S-QSFP	AOC	0.5m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1112-SD-R	S-QSFP	AOC	1m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1212-SD-R	S-QSFP	AOC	2m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1312-SD-R	S-QSFP	AOC	3m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1412-SD-R	S-QSFP	AOC	5m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1512-SD-R	S-QSFP	AOC	7m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1612-SD-R	S-QSFP	AOC	10m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1712-SD-R	S-QSFP	AOC	15m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1812-SD-R	S-QSFP	AOC	20m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1912-SD-R	S-QSFP	AOC	30m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1902-SD-R	S-QSFP	AOC	50m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1903-SD-R	S-QSFP	AOC	70m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1913-SD-R	S-QSFP	AOC	100m	Ethernet	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ111E-SD-R	S-QSFP	AOC	1m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ121E-SD-R	S-QSFP	AOC	2m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ131E-SD-R	S-QSFP	AOC	3m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ141E-SD-R	S-QSFP	AOC	5m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ151E-SD-R	S-QSFP	AOC	7m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ161E-SD-R	S-QSFP	AOC	10m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ171E-SD-R	S-QSFP	AOC	15m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ181E-SD-R	S-QSFP	AOC	20m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ191E-SD-R	S-QSFP	AOC	30m	Ethernet	100Gbps	-5-85°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1103-SD-R	S-QSFP	AOC	1m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1203-SD-R	S-QSFP	AOC	2m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1303-SD-R	S-QSFP	AOC	3m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1403-SD-R	S-QSFP	AOC	5m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1503-SD-R	S-QSFP	AOC	7m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1603-SD-R	S-QSFP	AOC	10m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1703-SD-R	S-QSFP	AOC	15m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1803-SD-R	S-QSFP	AOC	20m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1904-SD-R	S-QSFP	AOC	25m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1905-SD-R	S-QSFP	AOC	30m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1906-SD-R	S-QSFP	AOC	35m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm
PA0QQ1908-SD-R	S-QSFP	AOC	50m	InfiniBand	100Gbps	0-70°C	1.8W	NA	VCSEL	PIN	850nm