

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

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

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%

SPECIFICATION

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	850mm
PA0FF2401-SD-R	S-QSFP/S-SFP	AOC	3m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2501-SD-R	S-QSFP/S-SFP	AOC	5m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2601-SD-R	S-QSFP/S-SFP	AOC	7m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2701-SD-R	S-QSFP/S-SFP	AOC	10m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2801-SD-R	S-QSFP/S-SFP	AOC	15m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2501-SD-R	S-QSFP/S-SFP	AOC	20m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2601-SD-R	S-QSFP/S-SFP	AOC	25m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2701-SD-R	S-QSFP/S-SFP	AOC	30m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2801-SD-R	S-QSFP/S-SFP	AOC	70m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2301-SD-R	S-QSFP/S-SFP	AOC	100m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2401-SD-R	S-QSFP/S-SFP	AOC	1m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2501-SD-R	S-QSFP/S-SFP	AOC	2m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2601-SD-R	S-QSFP/S-SFP	AOC	3m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2701-SD-R	S-QSFP/S-SFP	AOC	5m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2801-SD-R	S-QSFP/S-SFP	AOC	7m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2501-SD-R	S-QSFP/S-SFP	AOC	10m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2601-SD-R	S-QSFP/S-SFP	AOC	15m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2701-SD-R	S-QSFP/S-SFP	AOC	20m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm
PA0FF2801-SD-R	S-QSFP/S-SFP	AOC	70m	Ethernet	100Gbps	0-70°C	1.8(S-QSFP) /0.8(S-SFP)	NA	VCSEL	PIN	850mm