

Q100G-4S25

QSFP28 to 4 SFP28 Active Optical Cable 100G to 4x25G AOC

1. Product overview

GLOBALfiber Q100G-4S25 is an active optical cable assembly for optical interconnection between compatible host ports.

2. Key features

QSFP28 to 4 x SFP28; four 25.78 Gb/s lanes; 850 nm VCSEL / PIN. Power: QSFP28 <2.2 W; SFP28 <0.8 W.

3. Applications

100GBASE-SR4 and 25GBASE-SR Ethernet.

4. Technical data

Parameter	Specification
Input Differential Impedance	Unit: ohm; Min.: 90; Typ.: 100; Max.: 110
Differential Input Voltage Swing, per lane	Unit: mV; Min.: 300; Max.: 1100
Transmit Disable Voltage	Unit: V; Min.: 2.0; Max.: V +0.3 CC
Transmit Enable Voltage	Unit: V; Min.: Vee; Max.: V +0.8 ee
Differential Output Swing, per lane	Unit: 300; Typ.: 900; Max.: 800
Bit Error Rate(Note1)	Unit: -; Typ.: 10 ⁻¹² ; Max.: 10 ⁻¹²
Output Differential Impedance	Unit: 90; Min.: 100; Typ.: 110; Max.: 110
Loss of Signal -Asserted	Unit: 2.0; Typ.: V +0.3 CC; Max.: V +0.3 CC
Loss of Signal -Negated	Unit: V ee; Typ.: V +0.8 ee; Max.: V +0.8 ee

5. Recommended operating conditions

Absolute limits are labelled separately and are not normal operating conditions.

Parameter	Specification	Parameter	Specification
Power consumption	QSFP28 <2.2 W; SFP28 <0.8 W	Case Operating Temperature (source row)	Min.: 0; Max.: 70; Unit: °C
Power Supply Voltage (absolute limit)	Min.: -0.5; Max.: +3.6; Unit: V		
Storage Temperature	Min.: -40; Max.: +85; Unit: °C	Data Rate Per Lane	Typ.: 25.78125; Unit: Gbps
Relative Humidity	Min.: 0; Max.: 85; Unit: %	Fiber Bend Radius	Min.: 3; Unit: cm
Supply Voltage	Min.: 3.15; Typ.: 3.30; Max.: 3.45; Unit: V		



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6. Optical characteristics

Parameter	Specification
Nominal wavelength	850 nm
Optical technology	VCSEL transmitter / PIN receiver

No additional numerical optical power, sensitivity or extinction-ratio limits are specified in the supplied source.

7. Digital diagnostics and management

Two-wire serial management; QSFP28 uses 38 contacts, SFP28 20 contacts. SFP28: TX_FAULT, TX_DISABLE, module absent, RX_LOS and rate-select signals.

8. Safety and regulatory

QSFP28 and SFP28 MSA. Use ESD-safe handling and observe the stated cable bend limits.

9. Ordering information

Parameter	Specification
GLOBALfiber product number	Q100G-4S25
Product description	QSFP28 to 4 SFP28 Active Optical Cable 100G to 4x25G AOC
Selectable lengths	1 m, 3 m, 5 m, 15 m
Available coding	Arista, Cisco, Custom, Extreme, Generic, Huawei, Juniper, NVIDIA-Mellanox(ETH)

Confirm equipment model, port mode and software version when ordering. Coding availability does not guarantee support for every platform or mode.