

QSFP

Dual Fiber



Product Description

UBIQCOM UB-QSFP28-100G-ZR4 QSFP28 transceiver module is designed for 103 Gigabit Ethernet links and 112 Gigabit OTU4 over 40/80km single mode fiber. It is compliant with IEEE 802.3ba 100G BASE-ER4 and OTU4 4I1-9D1F. Digital diagnostics functions are available via an I2C interface, as specified by the QSFP28 MSA.

Product Features

- Supports 103Gbps and 112Gbps
- Up to 40/80km for G.652 SMF
- Single 3.3V Power Supply and Power dissipation < 6W
- 4x28Gbps channels EML-based LAN-WDM cooling transmitter
- APD and TIA array on the receiver side
- 4x28Gbps retimed electrical interface
- Duplex LC receptacles
- I2C interface with integrated Digital Diagnostic Monitoring
- Operating Case Temperature: 0°C ~70°C

Applications

- 100GBASE-ER4 Ethernet
- OTN OTU4

Standard

- Compliant with QSFP28 MSA Specification and IEEE 802.3ba 100GBASE-ER4
- Compliant with OTU4 4I1-9D1F
- Class 1 FDA and IEC60825-1 Laser Safety Compliant

PRODUCT FEATURES AND SPECIFICATIONS

Performance Specifications - Electrical

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Transmitter						
Differential data input swing per lane	V _{in}	300		900	mVp-p	
Input Impedance (Differential)	Z _{in}	90	100	110	%	
Receiver						
Output Amplitude (Differential)	V _{out}	300		900	mVpp	
Output Impedance (Differential)	Z _{out}	90	100	110	%	
Output Rise/Fall Time	tr/tf			20	ps	20%-80%

Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Case Temperature	T _c	0		70	°C
Power Supply Voltage	V _{CC}	3.135	3.3	3.465	V
Power Dissipation	P _D			6	W

Digital Diagnostic Functions

UBIQCOM 100G QSFP28 transceivers provide an enhanced digital diagnostic.

Parameter	Range	Unit	Accuracy	Calibration
Temperature	0 to 70	°C	±3°C	Internal / External
Voltage	3.1 to 3.5	V	±3%	Internal / External
Bias Current, each Lane	30 to 110	mA	±10%	Internal / External
TX Power, each Lane	-2.9 to 2.9	dBm	±3dB	Internal / External
RX Power, each Lane	-21 to -4	dBm	±3dB	Internal / External

100G QSFP28 Optical Transceiver

Optical Components and Devices

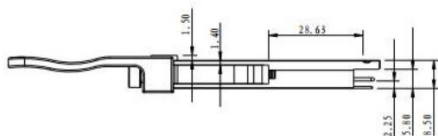
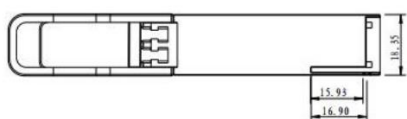
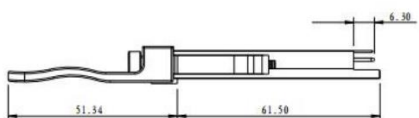
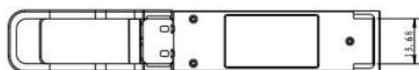
Product Type	Part No.	Data Rate	Wavelength	Distance	Connector	Fiber Type
QSFP28 ER4	UB-QSFP28-100G-ZR4	103Gbps	LAN-WDM	40KM	LC	SMF
QSFP28 ZR4	UB-QSFP28-100G-ZR4	103Gbps	LAN-WDM	80KM	LC	SMF

40G QSFP28 Optical Transceiver

Optical Components and Devices

Product Type	Part No.	Data Rate	Wavelength	Distance	Connector	Fiber Type
QSFP+ ER4	UB-QSFP28-40G-ER4	40Gbps	CWDM4	40KM	LC	SMF
QSFP+ ZR4	UB-QSFP28-40G-ZR4	40Gbps	LAN-WDM	80KM	LC	SMF

Mechanical Specifications



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