DATASHEET

HPE Aruba J4858D compatible BlueOptics, SFP BO28L859S1D 1000BASE-SX









General data

The BlueOptics© BO28L859S1D QSFP28 transceiver is a high performance, cost effective module supporting a datarate up to 103.125Gbps with 100 Meter link length on multi mode OM4 fiber.
BlueOptics© transceivers are 100% compliant with QSFP28 Multi-Source Agreement (MSA).
All BlueOptics© QSFP28 transceivers are always equipped with digital diagnostic function compliant to MSA SFF-8436.
Using digital diagnostic, BlueOptics© QSFP28 transceivers provide the following real time information:

-Supply voltage
-Laser bias current
-Laser average output power
-Laser received input power
-Temperature

The transceiver consists of five sections: A 4-channel VCSEL transmitter, a PIN photodiode, a trans-impedance preamplifier (TIA), the LD Driver and the digital diagnostic function.

Applications

-Ethernet

This datasheet was created automatically on 02-11-2026 . Technical changes reserved.

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-Infiniband

-Fibre Channel

Features

-27.952 Gb/s data rate per channel compliant to IEEE 802.3bm

-Hot-pluggable QSFP28 footprint compliant to SFF-8665

-MPO type pluggable optical interface

-Link length up to 100 Meter on OM4

-Digital Diagnostics SFF-8436 compliant

-2-wire interface for management

-Metal enclosure, for lower EMI

-RoHS compliant and lead-free

-Low power dissipation: maximum 3.5W

-Single +3.3V power supply

Case operating temperature

-Commercial: 0°C to +70°C
-Industrial: -40°C to +85°C
Order

Technical properties	
Compatible to	Standard
Connector	MPO/MTP
Construction type	Mini GBIC
Mode	Multimode
Module type	QSFP28
Protocol	100GBASE-SR4
Range	100 m
Speed	100 Gbit/s
Temperature	0 – 70 °C

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Wave length	850 nm

Available variants

ArtNr.	Bezeichnung	Unique
J8177E-BO	HPE Aruba J4858D compatible BlueOptics, SFP BO28L859S1D 1000BASE-SX	Unique

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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