

SFPB 10-2023 Bidirectional SFP+ Transceiver 10G | 20 km | TX 1270 nm | RX 1330 nm



- ✓ Operating data rate up to 11.3 Gbps
- ✓ Single +3.3 V ± 5 % power supply
- ✓ LC single connector
- ✓ Hot pluggable 20 pin connector
- ✓ Digital Monitoring SFF-8472 Rev. 10 compliant
- ✓ Compliant to SFP+ MSA
- ✓ PIN Rx photo diodes
- ✓ 9/125 μm SMF (single mode fibre)
- ✓ Operation with suitable SFP+ transceiver

Order information

Type	SFPB 10-2023
Order no.	SFPB102023
GTIN	7611682008395
PE	1
VE	1
EU customs tariff number	85176200

Technical data

Transmitter

Wavelength (TX 1270)	1260 ... 1280 nm
Bandwidth@-20dB	≤ 1 nm
Optical Output Power	-2 ... 3 dBm
Extinction Ratio (ER)	≥ 3.5 dB
SMSR	≥ 30 dB

Receiver

Wavelength (RX 1330)	1320 ... 1340 nm
Sensitivity	-15 dBm*
Overload Input	≥ 1 dBm
LOSA	≥ -38 dBm
LOSD	≤ -30 dBm
Hysteresis	0.5 ... 5 dB**

Data transmission

Bit rate	10.3 Gb/s
BER	< 10E-12

Applications	10GBASE-LR/LW 10G Ethernet OBSAI (3.072 Gb/s, 6.144 Gb/s) CPRI (2.4576 Gb/s, 4.9152 Gb/s, 6.144 Gb/s, 9.8304 Gb/s)
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Compliances	IEEE 802.3ae SFF-8431 Rev 4 SFF-8472 Rev 10
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General

Operating voltage	3.14 ... 3.46 V
Operating temperature range	0 ... 70 °C
Storage temperature range	-40 ... +85 °C
Operating humidity (non-condensing)	5 ... 95 %

Comments * Measured with a PRBS 2E31-1 test pattern, @10.3 Gb/s, EX = 5 dB, BER < 10E-12.
** The LOS Hysteresis to minimize "chatter" on the output line. In principle, hysteresis alone does not guarantee chatter-free operation.

Suitable products

SFPB 10-2032 Bidirectional SFP+ Transceiver 10G | 20 km | TX 1330 nm/RX 1270 nm

OAK 1-04 Optic cable steel armoured | LC/UPC | 1 m

OAK 5-04 Optic cable steel armoured | LC/UPC | 5 m

OAK 10-04 Optic cable steel armoured | LC/UPC | 10 m

OAK 100-04 Optic cable steel armoured | LC/UPC | 100 m

OAK 500-04 Optic cable steel armoured | LC/UPC | 500 m

OAK 1-43 Optical adapter cable | LC/UPC - SC/APC | 1 m

OZU 1-04 Optical joint LC/UPC