



## PRODUCT DATA SHEET

# Optical Transceiver: BIDI-10G-SFP-20A

### Description:

BIDI-10G-SFP-20A is multi-vendor compatible SFP Transceiver module, operating over one single-mode optical cable fiber with maximum distance 20km. BIDI-10G-SFP-20A uses 1270nm transmitting DFB laser and 1330nm PIN receiver and supports 1.25-10.31Gbps data rates. BIDI-10G-SFP-20A SFP+ Transceiver is fully compliant to SFP Multi Source Agreement SFF-8431 and it can be provided with custom-encoded firmware, in order to provide compatibility of most equipment vendors platforms in data communications industry.

### Key Highlights:

- **Type:** SFP+
- **Tx/Rx Wavelength:** 1270/1330 nm
- **Media Type:** Single-Mode Fiber
- **Optical Budget:** 9 dB
- **Max. Distance:** 20 km
- **Data Rate:** 1.25-10.3 Gbps
- **Temperature:** Standard 0°-70°C

# TECHNICAL SPECIFICATION

Parameter	Value
<b>Product Type:</b>	BIDI-10G-SFP-20A
<b>Media Type:</b>	Single-Mode Fiber
<b>TX Wavelength:</b>	1270 nm
<b>RX Wavelength</b>	1330 nm
<b>Minimum Optical Budget:</b>	9 dB
<b>Maximum Distance:</b>	20 km
<b>Supported Data Rate:</b>	1.25-10.3 Gbps
<b>Supported Applications:</b>	<ul style="list-style-type: none"><li>• STM-64 (9.95 Gbps)</li><li>• 10G Ethernet (10.31 Gbps)</li><li>• Gigabit Ethernet (1.25 Gbps)</li></ul>
<b>DDM/DOM:</b>	Supported
<b>Temperature Range:</b>	Standard 0°-70°C
<b>Connectors:</b>	Single LC
<b>Tx Wavelength Bandwidth:</b>	40 nm (1250-1290 nm)
<b>Rx Wavelength Bandwidth:</b>	40 nm (1310-1350 nm)
<b>Transmitting Power (Min/Max):</b>	-5 / 1 dB
<b>Receiver Sensitivity:</b>	-14 dB
<b>Receiver Overload:</b>	0.5 dB
<b>Dispersion:</b>	140-160 ps/nm
<b>Laser:</b>	DFB
<b>Receiver Type:</b>	PIN
<b>Chip:</b>	SEMTECH/MAXIM/MINDSPEED
<b>Power:</b>	+3.3V single power supply
<b>Compliance:</b>	<ul style="list-style-type: none"><li>• SFP MSA, SFF-8431, RoHS, CE, Class 1 FDA</li><li>• and IEC60825-1 Laser Safety Compliant</li></ul>

## Compatibility

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 50 vendor brands in data and telecom communications industry:

**MS** - General MSA  
**AD** - ADVA  
**AL** - Alcatel-Lucent  
**AR** - Arista  
**AV** - Avaya  
**BR** - Brocade  
**CN** - Ciena  
**CI** - Cisco  
**DL** - Dell & Force10  
**DK** - D-Link  
**EM** - EMC2  
**ET** - Enterasys

**ER** - Ericsson  
**EX** - Extreme Networks  
**F5** - F5 Networks  
**FO** - Fortinet  
**FU** - Fujitsu  
**H3** - H3C  
**HI** - Hirschmann  
**HP\*** - HP Networking  
**HS\*** - HP Storage  
**HU** - Huawei  
**IB** - IBM  
**IF** - Infinera

**IN** - Intel  
**JU** - Juniper Networks  
**LI** - Linksys  
**ML** - Mellanox  
**ME** - Meraki (Cisco)  
**MT** - MikroTik  
**MO** - Moxa  
**MR** - MRV  
**NG** - Netgear  
**NS** - NSN  
**PA** - Palo Alto Network  
**QL** - Qlogic

**RD** - RAD  
**RU** - Ruijie Networks  
**SM** - Supermicro  
**SY** - Synology  
**TC** - Telco Systems  
**TP** - TP-LINK  
**TN** - Trendnet  
**WG** - WatchGuard  
**ZT** - ZTE  
**XX** - Other

\* - Please note HP compatible module prices can be higher than prices indicated in this material due to special requirements in coding. If you require HP compatibility, for exact pricing please contact our sales team: [sales@edgeoptic.com](mailto:sales@edgeoptic.com)

## Product Quality

We focus on strict product quality tests before each delivery, performing optical parameter tests, connector cleanliness tests and firmware verification tests to ensure our delivered products fully meets the promised product technical specification and compatibility requirements.

EDGE Optical transceivers are CE, ROHS certified and have passed Telecordia reliability tests.

## Warranty

EDGE Optic's provides a limited **warranty for sixty (60) months** from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.