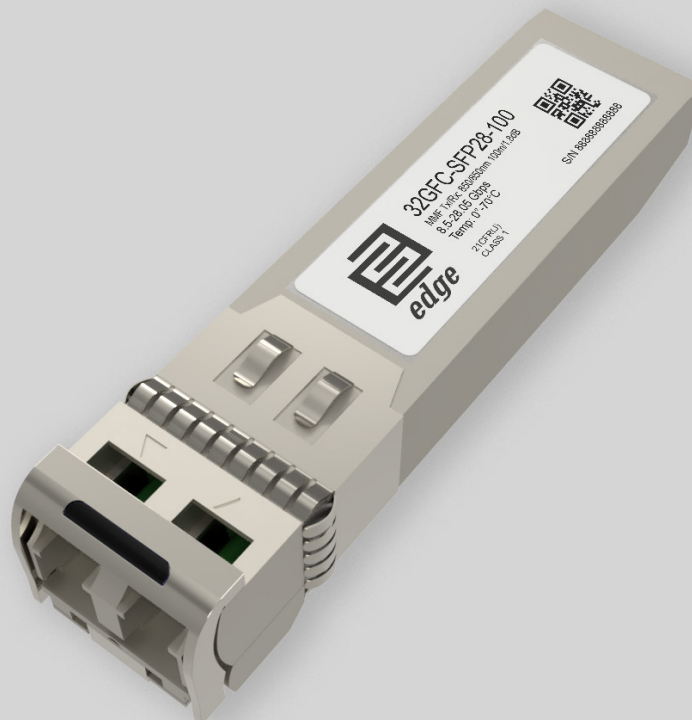


Key Highlights:

- **Type:** SFP28
- **Compatibility:** Multi-Vendor MSA Compatible
- **Tx Wavelength:** 850 nm
- **Rx Wavelength:** 850 nm
- **Transmitter Type:** VSCEL Laser
- **Media Type:** Multi-Mode Fiber (MMF)
- **Connectors:** Double LC
- **Optical Budget:** 1.8 dB
- **Max. Distance:** 100 m (OM4) / 70 m (OM3)
- **Data Rate:** 8.5-28.05 Gbps
- **DDM/DOM:** Supported
- **Power Consumption:** <1W
- **Temperature:** Standard 0°-70°C



Optical Transceiver: 32GFC-SFP28-100

Product Description:

32GFC-SFP28-100 is a 32G Fiber Channel (32GFC) Short Wavelength (SWL) Multi-Vendor MSA Compatible SFP28 (Small Form-Factor Pluggable 28) Transceiver, operating over Double Fiber Multi-Mode Fiber (MMF) optical cable. It has minimum guaranteed optical budget of 1.8 dB, which in most cases is enough to reach 100 m over OM4 multi-mode fiber, or 70 m over OM3 multi-mode fiber. However, distance is just indicative parameter for comfort of identification that is calculated by taking into account minimal optical budget and average attenuation of optical cabling in industry. 32GFC-SFP28-100 uses top quality VSCEL (Vertical Cavity Surface Emitting Laser) transmitter and 32Gb/s PIN photodiode receiver. 32GFC-SFP28-100 32G Fiber Channel (32GFC) Short Wavelength (SWL) transceiver supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. 32GFC-SFP28-100 operates in Standard 0°-70°C temperature range and has Double LC interface. 32GFC-SFP28-100 32G Fiber Channel (32GFC) Short Wavelength (SWL) SFP28 support 8.5-28.05 Gbps data rate and is designed for tri-state applications: 32G Fiber Channel (28.05 Gbps), 16G Fiber Channel (14.025Gbps), 8G Fiber Channel (8.5 Gbps). 32GFC-SFP28-100 SFP28 Double Fiber optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are Storage Area Networking (SAN) Applications in Data Centers, Data Center Fiber Channel Interconnections over Backbone, Enterprise Networks SAN Interconnections.

32GFC-SFP28-100 32G Fiber Channel (32GFC) Short Wavelength (SWL) SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. 32GFC-SFP28-100 is fully compliant to SFF-8431 and SFF-8472 Multi Source Agreement (MSA), 32G Fiber Channel (28.05 Gbps), 16G Fiber Channel (14.025Gbps), 8G Fiber Channel (8.5 Gbps) specification. Consequently, compliance to above standards guarantees that module is compatible and works with majority of networking equipment, where is not implemented special algorithm for protection against third party modules. However – our technical team has accumulated deep expertise in custom-encoded firmware's for 32G Fiber Channel (32GFC) Short Wavelength (SWL) SFP28 transceiver in order to make it work in almost any brand equipment. We will be glad to know your requirements.



Product Specification:

General Parameter	Value
Media Type:	Multi-Mode Fiber (MMF)
Connectors:	Double LC
Tx Wavelength:	850 nm
Rx Wavelength:	850 nm
Minimum Optical Budget:	1.8 dB
Maximum Distance:	100 m (OM4) / 70 m (OM3)
Supported Data Rate:	8.5-28.05 Gbps
Supported Applications:	32G Fiber Channel (28.05 Gbps), 16G Fiber Channel (14.025Gbps), 8G Fiber Channel (8.5 Gbps)
Modulation Format:	NRZ
DDM/DOM:	Supported
CDR (Clock and Data Recovery):	Supported
Operating Temperature Range:	Standard 0°-70°C
Storage Temperature Range:	-40° to 85°C
Relative Humidity (Non-Condensation):	0 to 85%
Power Consumption:	<1W
Power Supply Voltage Typical:	+3.3V single power supply
Power Supply Voltage Range:	3.14 to 3.46V
Supply Current (Max):	300 mA
Chipset:	Macom, Oclaro, Renesas Electronics, II-VI, Neo, Maxim, Sumitomo, Semtech
Compliance:	SFP+ MSA, SFF-8402, SFF-8472, SFF-8431, SFF-8432, FC-PI-6, CE, RoHS-6, Class 1 FDA and IEC60825-1 Laser Safety Compliant
MTBF value at 35 °C:	1'000'000 Hours.

Transmitter Parameters	Value
Transmitter Type:	VSCSEL Laser
Tx Wavelength Bandwidth:	20 nm (840-860 nm)
Average Optical Power (Min):	-8.4 dBm
Average Optical Power (Max):	2.4 dBm
Spectral Width (RMS) (Max):	8.2nm
Extinction Ratio (Min):	2 dB
Relative Intensity Noise:	-128 dB/Hz



Transmitter Parameters	Value
Input differential impedance (Max):	100 Ohm
Single ended data input swing (Min):	180 mV
Single ended data input swing (Max):	700 mV
Transmit Disable Voltage (Min):	2 V
Transmit Disable Voltage (Max):	V _{cc} +0.3 V
Transmit Enable Voltage (Min):	-0.3 V
Transmit Enable Voltage (Max):	0.8 V

Receiver Parameters	Value
Receiver Type:	PIN photodiode
Rx Wavelength Bandwidth:	20 nm (840-860 nm)
Receiver Sensitivity (Max):	-10.2 dBm
Receiver Overload:	2 dBm
LOS Assert (Min):	-30 dBm
LOS De-Assert (Max):	-10.5 dBm
LOS Hysteresis (Min):	0.5 dB
Differential data output swing (Min):	300 mV
Differential data output swing (Max):	850 mV
LOS Fault (Max):	V _{cc} -1.3 V
LOS Normal (Min):	V _{cc} HOST V
LOS Normal (Max):	V _{ee} V



Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 100 vendor brands in data and telecom communications industry:

MS - General MSA
AD - ADVA
AE - Advantech
AL - Alcatel (Nokia)
AT - Allied Telesis
AR - Arista
AS - Arris
AV - Avaya
BC - Barracuda
BR - Broadcom
QL - Cavium (Qlogic)
CR - Ceragon
CP - Checkpoint
CH - Chelsio
CN - Ciena
CI - Cisco
LI - Cisco (Linksys)
CE - Comnet
CO - Coriant
DH - Dahua
DC - DCN
DL - Dell & Force10
DK - D-Link

DZ - DZS(Dasan-Zhone)
EI - ECI
EC - EdgeCore
EW - EdgeWare
EL - Eltex
EM - EMC2
EN - Enterasys
ER - Ericsson
EF - EXFO
EX - Extreme Networks
F5 - F5 Networks
FI - Finisar
FO - Fortinet
FU - Fujitsu
H3 - H3C
HI - Hirschmann
HU - Huawei
IB - IBM
IF - Infinera
IN - Intel
IX - Ixia
JU - Juniper Networks
KM - KeyMile

KY - KyLand
LN - Lenovo
ML - Mellanox
ME - Meraki (Cisco)
MT - MikroTik
MO - Moxa
MR - MRV
NC - NEC
NG - Netgear
NK - Nokia
NT - Nortel
NS - NSN
OR - Oracle
PA - Palo Alto Network
PL - Planet
QC - QCT(Quanta)
QN - QNAP
RD - RAD
RW - RadWare
RC - Raisecom
RK - Ruckus
RU - Ruijie Networks
SG - Samsung

SV - Sandvine
SC - Silicom
SF - SolarFlare
SW - Sonicwall
SM - Supermicro
SY - Synology
TC - Telco Systems
TP - TP-LINK
TN - Trendnet
UN - Ubiquiti Networks
VX - VeEx
WG - WatchGuard
WS - Waystream
WT - Westermo
ZT - ZTE
ZX - Zyxel
HP - HP
AG - Avago
OC - Oclaro
EU - Emulex
TM - Transmode
AU - HP Aruba
XX - Other

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. Warranty does not cover damage caused by improper deployment, misuse and accidents.

