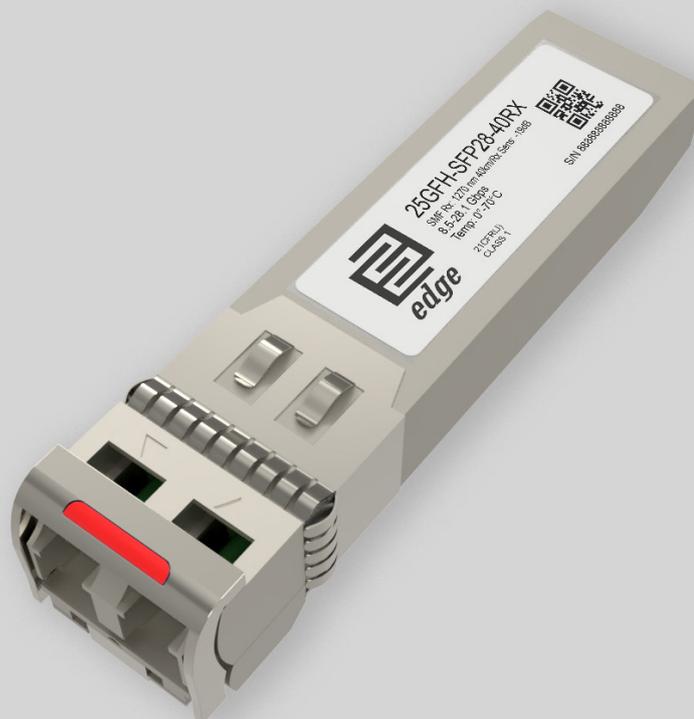


Key Highlights:

- **Type:** SFP28
- **Compatibility:** Multi-Vendor MSA Compatible
- **Tx Wavelength:** N/A
- **Rx Wavelength:** 1310 nm
- **Transmitter Type:** N/A
- **Media Type:** Single-Mode Fiber (SMF)
- **Connectors:** Single LC
- **Optical Budget:** Rx Sensitivity (Min) -19 dBm
- **Max. Distance:** 40km
- **Data Rate:** 8.5-28.1 Gbps
- **DDM/DOM:** Supported
- **Power Consumption:** <1.8W
- **Temperature:** Standard 0°-70°C



Optical Transceiver: 25GFH-SFP28-40RX

Product Description:

25GFH-SFP28-40RX is a 25GE ER Rx Only eCPRI (enhanced CPRI) / CPRI Fronthaul Multi-Vendor MSA Compatible SFP28 (Small Form-Factor Pluggable 28) Transceiver. As global online traffic is asymmetrical – especially this statement is valid nowadays when biggest share of global traffic is video streaming, there is much more downlink traffic than uplink. To address this challenge and help engineers design networks more cost efficiently 25GE ER Rx Only eCPRI comes in play. 25GE ER Rx Only eCPRI doesn't have Transmitter, it only has APD receiver comparing to classical 25GE-ER eCPRI module which has both components. 25GE ER Rx Only eCPRI operates over Single Fiber Single-Mode Fiber (SMF) optical cable. Module has guaranteed average receiver sensitivity (Min) -19 dBm, which in most cases is enough to reach 40 km over OS2 fiber. 25GFH-SFP28-40RX 25GE ER Rx Only eCPRI / CPRI supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. 25GFH-SFP28-40RX operates in Standard 0°-70°C temperature range and has Single LC interface. 25GFH-SFP28-40RX 25GE ER Rx Only eCPRI / CPRI SFP28 support 8.5-28.1 Gbps data rate and eCPRI / CPRI Option 10 (24.33 Gbps), CPRI Option 9 (12.165 Gbps), CPRI Option 8 (10.138 Gbps), CPRI option 7 (9.830 Gbps) applications. 25GFH-SFP28-40RX SFP28 Single Fiber optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular use cases are in Mobile Carrier Networks, thus 5G fronthaul and O-RAN (open radio access network) applications to address traffic asymmetry challenge, and as well can be used in networking scenarios where Deep Packet Inspection (DPI) is performed.

25GFH-SFP28-40RX 25GE ER Rx Only eCPRI / CPRI SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. 25GFH-SFP28-40RX is fully compliant to SFF-8431 and SFF-8472 Multi Source Agreement (MSA), eCPRI, CPRI and IEEE 802.3by 25 Gb/s 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 25GE ER Rx Only eCPRI / CPRI 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:	Single-Mode Fiber (SMF)
Connectors:	Single LC
Tx Wavelength:	N/A
Rx Wavelength:	1310 nm
Minimum Optical Budget:	Rx Sensitivity (Min) -19 dBm
Maximum Distance:	40km
Supported Data Rate:	8.5-28.1 Gbps
Supported Applications:	CPRI Option 10 (24.33 Gbps), CPRI Option 9 (12.165 Gbps), CPRI Option 8 (10.138 Gbps), CPRI option 7 (9.830 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:	<1.8W
Power Supply Voltage Typical:	+3.3V single power supply
Power Supply Voltage Range:	3.14 to 3.46V
Supply Current (Max):	500 mA
Chipset:	Macom, Oclaro, Renesas Electronics, II-VI, Neo, Maxim, Sumitomo, Semtech
Compliance:	SFP+ MSA, SFF-8402, SFF-8472, SFF-8431, SFF-8432, 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:	N/A
Tx Wavelength Bandwidth:	N/A
Average Optical Power (Min):	N/A
Average Optical Power (Max):	N/A
Spectral Width (RMS) (Max):	N/A
Extinction Ratio (Min):	N/A
Relative Intensity Noise:	-130 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):	N/A
Transmit Disable Voltage (Min):	N/A
Transmit Disable Voltage (Max):	N/A
Transmit Enable Voltage (Min):	N/A
Transmit Enable Voltage (Max):	N/A

Receiver Parameters	Value
Receiver Type:	APD photodiode
Rx Wavelength Bandwidth:	30 nm (1295-1325 nm)
Receiver Sensitivity (Max):	-19 dBm
Receiver Overload:	-7 dBm
LOS Assert (Min):	-30 dBm
LOS De-Assert (Max):	-20 dBm
LOS Hysteresis (Min):	0.5 dB
Differential data output swing (Min):	150 mV
Differential data output swing (Max):	900 mV
LOS Fault (Max):	2 V
LOS Normal (Min):	VccHOST V
LOS Normal (Max):	Vee 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.

