



## PRODUCT DATA SHEET

### Optical Transceiver: 1.25G-GBIC-550

#### Description:

1.25G-GBIC-550 is multi-vendor compatible GBIC Transceiver module, operating over double fiber multi-mode optical cable with maximum distance 550m. 1.25G-GBIC-550 uses 850nm transmitting VSCSEL laser and 850nm PIN receiver and supports 1.063-1.25Gbps data rates.

1.25G-GBIC-550 GBIC Transceiver is fully compliant to GBIC Multi Source Agreement SFF-8053 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:** GBIC
- **Tx/Rx Wavelength:** 850/850 nm
- **Media Type:** Multi-Mode Fiber
- **Optical Budget:** 7.5 dB
- **Max. Distance:** 550 m
- **Data Rate:** 1.063-1.25Gbps
- **Temperature:** Standard 0°-70°C

# TECHNICAL SPECIFICATION

Parameter	Value
<b>Product Type:</b>	1.25G-GBIC-550
<b>Media Type:</b>	Multi-Mode Fiber
<b>TX Wavelength:</b>	850 nm
<b>RX Wavelength:</b>	850 nm
<b>Minimum Optical Budget:</b>	7.5 dB
<b>Maximum Distance:</b>	550 m
<b>Supported Data Rate:</b>	1.063-1.25Gbps
<b>Supported Applications:</b>	<ul style="list-style-type: none"><li>• 1G Eth (1.25Gbps)</li><li>• 1G FC (1.063Gbps)</li></ul>
<b>DDM/DOM:</b>	Not Supported
<b>Temperature Range:</b>	Standard 0°-70°C
<b>Connectors:</b>	Double SC
<b>Tx Wavelength Bandwidth:</b>	20 nm (840-860 nm)
<b>Rx Wavelength Bandwidth:</b>	20 nm (840-860 nm)
<b>Transmitting Power (Min/Max):</b>	-9.5/-3 dB
<b>Receiver Sensitivity:</b>	-17 dB
<b>Receiver Overload:</b>	-3 dB
<b>Dispersion:</b>	110 ps/nm
<b>Laser:</b>	VSCEL
<b>Receiver Type:</b>	PIN
<b>Chip:</b>	SEMTECH/UX
<b>Power:</b>	+3.3V single power supply
<b>Compliance:</b>	<ul style="list-style-type: none"><li>• GBIC MSA,</li><li>• SFF-8053,</li><li>• IEEE STD 802.3,</li><li>• RoHS,</li><li>• CE,</li><li>• Class 1 FDA 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 meet 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.