1000BASE-ZX GBIC Modul SM SC 80km Datenreichweite (1550nm) Cisco kompatibel

\*\*GBIC-, SFP-, XFP-, XENPAK-Transceiver

Die neuen optischen Transceiver von tde, darunter GBIC-, SFP-, XFP- und XENPAK-Transceiver zeichnen sich durch hohe Qualität, höchste Ausfallsicherheit und eine sehr einfache Installation aus – und das zu einem äußerst attraktiven Preis-Leistungsverhältnis. Internet Video, HDTV, Voice over IP und die ständig wachsenden Volumina von Unternehmensdaten erfordern eine schnellere Datenübertragung und größere Bandbreiten. Optische Transceiver kombinieren Sender und Empfänger in einer optischen Komponente.

\*\*GBIC Module

\*\*TECHNISCHE\_DATEN

Features
• Betriebsdatenrate bis zu 1.25Gbps
• 1550nm DFB Transmitter
• Entfernung bis zu 80km
• 3.3/5V Stromversorgung und TTL Schnittstelle
• SC Duplex Stecker
• Unter Spannung ansteckbar
• Gehäusetemperatur bei Betrieb
  Standard: 0°C~+70°C
  Industrie: -40°C~+85°C
• Konform mit GBIC Spezifikation Rev. 5.5
Anwendungen
• WDM Fast Ethernet Verbindungen
• SONET/SDH Verbindungen
• Faser Verbindungskanäle

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| --- | --- | --- |
| Feature | Standard | Performance |
| Electrostatic Discharge (ESD) to the Electrical Pins | MIL-STD-883E Method 3015.7 | Class 1(>500 V) Isolation with the case |
| Electromagnetic Interference (EMI) | FCC Part 15 Class B | Compatible with standards |
| Laser Eye Safety | FDA 21CFR 1040.10 and 1040.11 EN60950, EN (IEC) 60825-1,2 | Compatible with Class I laser product. Compatible with T üV standards |
| Component Recognition | UL and CUL | UL file E317337 |
| Green Products | RoHS | RoHS6 |

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| Parameter | Symbol | Min. | Max. | Unit |
| Storage Temperature | TS | -40 | +85 | °C |
| Supply Voltage | Vcc | -0.5 | 6 | V |

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| --- | --- | --- | --- | --- | --- |
| Parameter | Symbol | Min. | Typ. | Max. | Unit |
| Operating Case Temperature | TA | -40 |  | +85 | °C |
| Power Supply Voltage | Vcc | 4.75 3.15 | 5 3.3 | 5.25 3.45 | V |
| Power Supply Current | Icc |  |  | 300 | mA |
| Surge Current | ISurge |  |  | +30 | mA |
| Baud Rate |  |  | 1.25 |  | GBaud |

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| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Notes |
| Transmitter |  |  |  |  |  |  |
| LVPECL Inputs (Differential) | Vin | 400 |  | 2500 | mVp | AC coupled inputs |
| Input Impedance (Differential) | Zin | 85 | 100 | 115 | ohms | Rin > 100 kohms @ DC |
| Tx\_DISABLE Input Voltage - High |  | 2 |  | Vcc+0.3 | V |  |
| Tx\_DISABLE Input Voltage - Low |  | 0 |  | 0.8 | V |  |
| Tx\_FAULT Output Voltage - High |  | 2 |  | Vcc+0.3 | V | Io = 400μA; Host Vcc |
| Tx\_FAULT Output Voltage - Low |  | 0 |  | 0,5 | V | Io = -4.0mA |
| Receiver |  |  |  |  |  |  |
| LVPECL Outputs (Differential) | Vout | 400 | 800 | 1200 | mVpp | AC coupled outputs |
| Output Impedance (Differential) | Zout | 85 | 100 | 115 | ohms |  |
| Rx\_LOS Output Voltage - High |  | 2 |  | Vcc+0.3 | V | lo = 400μA; Host Vcc |
| Rx\_LOS Output Voltage - Low |  | 0 |  | 0.8 | V | lo = -4.0mA |
| MOD\_DEF ( 0:2 ) | VoH VoL | 2.5 0 |  | 0.5 | V V | With Serial ID |

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| Parameter | Symbol | Min. | Typ. | Max. | Unit |
| 9μm Core Diameter SMF 15454-GBIC-ZX-AS | L |  | 80 |  | km |
| Data Rate |  |  | 1.25 |  | Gbps |
| Transmitter |  |  |  |  |  |
| Centre Wavelength | λc | 1500 | 1550 | 1580 | nm |
| Spectral Width (RMS) | σ |  |  | 1 | nm |
| Average Output Power | P 0ut | 0 |  | +5 | dBm |
| Extinction Ratio | EX | 9 |  |  | dB |
| Rise/Fall Time (20% − 80%) | tr/tf |  |  | 260 | ns |
| Output Optical Eye | ITU-T G.957 Compliant |  |  |  |  |
| Data Input Swing Differential | V IN | 500 |  | 2000 | mV |
| Input Differential Impedance | ZIN | 90 | 100 | 110 | Ω |
| TX Disable - Disable                 - Enable |  | 2.0 0 |  | VCC+0.3 0.8 | V V |
| TX\_Fault - Fault              - Normal |  | 2.0 0 |  | VCC+0.3 0.8 | V V |
| TX\_Disable Assert Time | t\_off |  |  | 10 | us |
| Receiver |  |  |  |  |  |
| Centre Wavelength | λc | 1100 |  | 1600 | nm |
| Receiver Sensitivity | PIN |  |  | -24 | dBm |
| Output Differential Impedance | P IN | 90 | 100 | 110 | Ω |
| Data Output Swing Differential | VOUT | 370 |  | 2000 | mV |
| Rise/Fall Time | Tr/tf |  |  | 2.2 | ns |
| LOS De-Assert | LOSD |  |  | -25 | dBm |
| LOS Assert | LOSA | -40 |  |  | dBm |
| LOS - High        - Low |  | 2.0 0 |  | VCC+0.3 0.8 | V V |