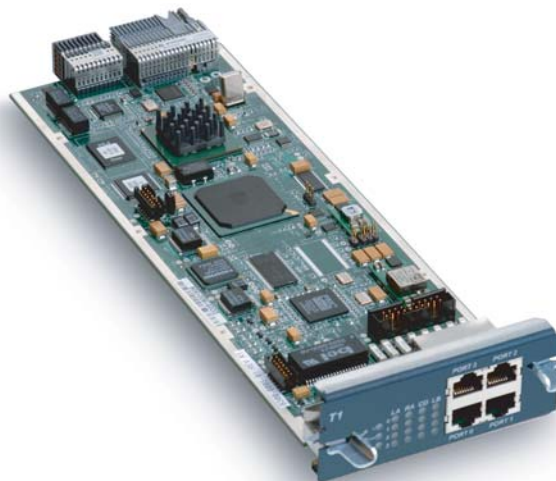


T1 WAN Line Card

The NetDevices T1 WAN line card has fully manageable integrated CSU/DSU and supports clear channel T1 and fractional T1* service, providing maximum flexibility and enabling a variety of different deployments for this line card. This line card is offered in a 4-port version and is supported on the NetDevices SG-8 platform.

Overview

- Interface connectors: 4 RJ-45
- T1 or fractional T1 network interface
- Data rates : N x 64 kbps or N x 56 kbps (1 ≤ N ≤ 24); nonchannelized
- Max MTU 1500 bytes
- 100Ω RJ-48C connectors
- HDLC, PPP and Frame Relay encapsulation
- Fully manageable through CLI, HTTP and SNMP



| Specifications | |
|---|--|
| T1 Network Interface | |
| Transmit bit rate 1.544 Mbps +/- 32ppm Receive bit rate 1.544 Mbps +/- 32ppm Line Code AMI, B8ZS AMI Ones Density Framing Format D4 (SF) and ESF Output Level (LBO) 0, -7.5, -15, -22.5 dB DTE/DCE Interface G.704/structured or Fractional Service * | |
| DSU/CSU | |
| Selectable cable length 0-110, 110-220, 220-330, 330, 440-550, 550-660ft CSU line build-out (LBO) 0, -7.5, -15, -22.5 dB CSU receive signal level: 0 to -36 dB | |
| Diagnostics | |
| Digital diagnostics loopback Payload loopback Line loopback BERT test patterns 2 ¹¹ -1, 2 ¹⁵ -1, 2 ²⁰ -1 (*) Red, Yellow and AIS alarm detection Transmission of AIS and yellow alarm signal | |
| LEDs | |
| Active – green/off Fault – red/off LA (Local Alarm) – amber/off RA (Remote Alarm) – amber/off CD (Carrier Detect) – green/off LB (Loopback) – green/off | |

| Certifications/Agency Approvals | |
|--|---|
| Networking | Regulatory Compliance |
| 47, CFR Part 68 and ACTA adopted technical criteria CS 03 Issue 8, Part II TBR 12 & 13 AS/ACTF S016: 2001 T1 (DS1) JATE – 1.544 Mbit/s digital interface | FCC Part 68, TIA-968-A-2 CS-03 Issue 8, Part II TBR 12, TBR 13 JATE-1.544kbit/s Digital Interface (T1) [FCC# 6TGUSA-46505_DE-N] |
| EMC | Safety |
| FCC Part 15, Subpart B ICES 003 EN 55022:1998/A1:2000 AS/NZS 3548: 1995+A1: 1997 +A2: 1997 VCCI V-3/2000.04 | US (UL60950-1: 2003, First Ed.) Canada [CSA 22.2 No.60950-1-03 First Ed.] Europe (EN60950) Other countries (IEC 60950, CB Scheme) |

* Fractional T1 and BERT testing functionality are available with software release 2.0 and above.

| Specifications | |
|--|--|
| Dimensions and Weight | |
| Dimensions (H x W x D): 1.54 x 3.87 x 11.5 in. (3.91 x 9.84 x 29.21 cm) Weight: 0.5 lb (227 g) | |
| Environmental | |
| Operating temperature: 0 to 45°C (32 to 113°F) Non-operating temperature: -25 to 70°C (-13 to 158°F) Relative humidity: 0 to 60% non-condensing, operating 0 to 90% non-condensing, non-operating Operational altitude: 9843 ft (3000 m) | |
| Supported SNMP MIBs | |
| MIB II DS1, E1, DS2, E2 MIB (RFC 3895) LCP, IPCP MIBs (RFC 1471, 1473) Frame Relay MIB (RFC 2115) Traps: Interface up/down, line status | |
| Telecommunications Standards | |
| ANSI T1.102, T1.403 AT&T Publication 62411 ITU-T G.703, G.704 | |

| Product ordering information | |
|------------------------------|--------------------------------|
| Module number | Description |
| NetD-4FT1= | 4-port fractional T1 line card |

| Platform and software support | | | |
|-------------------------------|----------|----------------------|---|
| Module number | Platform | Min software release | Max modules per platform |
| NetD-4FT1= | SG-8 | 1.0.1 | 2 for line rate performance at 128 byte frames, 6 without line rate requirement |



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