

## A301 Clear Channel T3/E3 card

The A301 card is a 2U PCI adapter that supports clear channel T3 (44.7 Mbps) and E3 (34.4 Mbps) over dual BNC connectors. Based on bus mastering PCI technology supported by a ring-buffer DMA architecture, the A301 provides 132 Mbps of PCI bus transfer capacity with minimal real-time processor load.



The A301 is ideal for larger organizations or ISPs that have outgrown their multiple [T1](#) or DSL links. The A301 allows these users to take advantage of the relatively low cost of T3/E3 connections when compared to multiple T1 or E1 lines.

### Technical Specifications

- Dimensions: 2U Form factor: 120mm x 55 mm for use in restricted chassis.
- 32 bit bus master DMA data exchanges across PCI interface at
- 132Mbytes/sec for minimum host processor intervention.
- Ring buffer DMA handling for minimum host intervention and guaranteed data integrity on high volume systems.
- Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes. Allows new features to be added when they become available.
- Power: 800mA peak, operational 300mA max at +3.3v or 5v.
- Autosense compatibility with 5v and 3.3v PCI busses.
- Temperature range: 0 - 50C.

### T3/E3 Standards

- DS3/E3 Framer: ANSI T1.107\_1988, ANSI T1.107\_1989, T1.404, ITU-T G.751, ITU-T G.832, Bellcore TR-TSY-000009 and AT&T Pub 54014.
- LIU Receiver: G.775, GR-449, ITU G.751, ITU G.752, ITU G.755, ETSI TBR 24, and GR-499-CORE, 1995.
- LIU Transmitter: Bellcore GR-499, GR-253 and ANSI T1.102.
- Jitter Attenuator: T1.105.03b, ETSI TBR-24, Bellcore GR-253 and GR-499.

### Line protocols

[Frame Relay](#), [X.25](#), HDLC, PPP, [SS7](#), Transparent bit-stream, BSC.

**Operating systems**

Linux (all versions, releases and distributions from 1.0 up), FreeBSD, Open BSD.

**Higher level protocols**

IP/IPX over Frame Relay/ PPP/ HDLC/ X.25, X.25 over Frame Relay (Annex G), BSC over X.25 (DMT and TCOP), SNA over X.25, PPPoE, PPPoA, IP over ATM.

**Warranty**

Three years parts and labour.

**Certification**

FCC Part 15 Class A, FCC Part 68, CE.

**Diagnostic Tools**

WANPIPEMON, SNMP, System logs.

**Production quality**

ISO 9002

**Contact Information**

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