

## 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