

TerraBoss and TerraUno T1/E1 DSUs

TerraBoss™ and TerraUno™ put T1/E1 DSUs in an entirely new light. With a unique set of features that make them the easiest DSUs on the market to configure and manage, they are also the first truly global T1/E1 DSUs.

Featuring Larscom's LineLearn™ function, TerraBoss and TerraUno are the first DSUs to automatically configure to either a T1 or E1 line. Installation is "plug-and-play" simple.

Supporting T1/E1 through the same network port, and V.35/X.21/RS449/EIA 530 through the same serial port, TerraBoss and TerraUno are a perfect worldwide solution—for small-office desktops as well as international networks.

A graphical test set, comprehensive configuration options, and sophisticated performance monitoring, alarm reporting, and diagnostics highlight the advanced management features of TerraBoss and TerraUno. Access options include local and remote terminal/PC connections, a Web interface, SNMP, and Email alarm reporting. For hub sites, you can manage up to nine TerraUno DSUs through a TerraBoss in the same ten-unit shelf.

Priced less than many bare-bones T1 or E1 DSUs, TerraBoss and TerraUno are as easy to cost-justify as they are to install and manage.

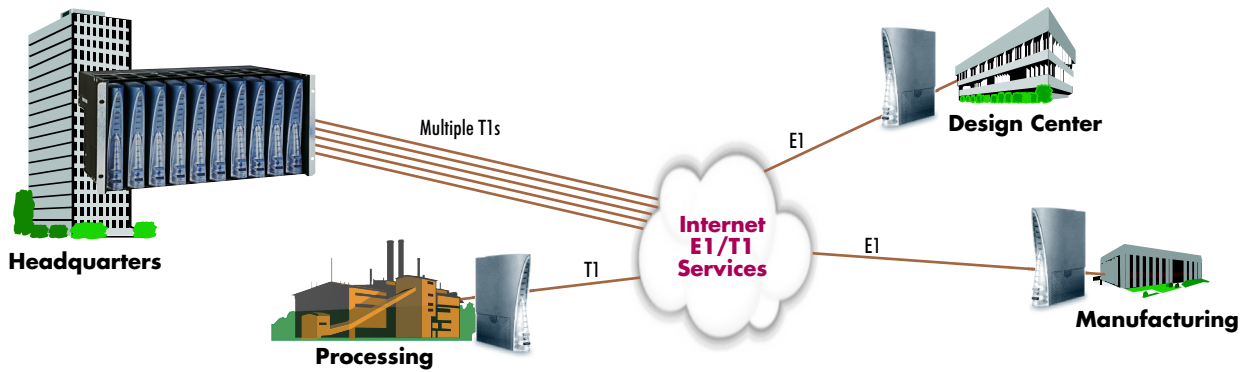


APPLICATIONS

- World-class connectivity to both T1 and E1 for international deployment
- High-speed Internet access
- LAN interconnection

BENEFITS

- A single solution for T1 and E1 applications, supporting T1 or E1 through the same port
- Simple, rapid setup with LineLearn™ plug-and-play installation
- Quick and accurate troubleshooting using graphical test set and comprehensive diagnostic functions
- Compatibility with V.35, EIA 530, and X.21 serial interfaces through a single data port
- Simplified network operations with email alerts for trouble ticketing, Telnet access, SNMP support, and Web browser interface



In the application shown above, an enterprise greatly simplifies installation and support by deploying TerraUno and TerraBoss DSUs worldwide. Private network connections are provided to the design center, manufacturing, processing plant, and headquarters. To service heavy CAD/CAM and data traffic, the headquarters site employs multiple DSUs housed in a chassis. One TerraBoss provides management access to all DSUs in the chassis. The remote units may be TerraUno DSUs, or TerraBoss DSUs if a web interface and Email alerts are desired.

SPECIFICATIONS

FEATURES

- LineLearn™** — Network interface automatically senses T1 or E1 format and configures to line parameters
- Graphical Test Set** — Real-time status, diagnostics, and loopbacks in easy-to-use graphic format
- TerraUno Management** — Terminal/PC interface with local and remote access; extensive front-panel control; advanced performance monitoring and diagnostics
- TerraBoss Management** — Ethernet access for Web browser, SNMP, and Telnet; Email alerts configurable for trouble-ticketing; manages up to 9 TerraUnos in a chassis

INTERFACES

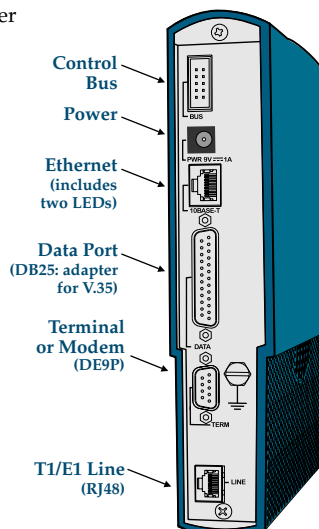
- Network** — Full and fractional T1 and E1
- Rate** — 1.544 Mbps \pm 32 ppm (T1) or 2.048 Mbps \pm 50 ppm (E1)
- Framing** — T1: D4 or ESF per AT&T 62411; CSU functionality; E1: per G.703 and G.704, with or without CRC-4; E1 unframed (TerraUno only)
- Line Coding** — T1: AMI, AMI with bit 7 stuffing, or B8ZS; E1: HDB3
- Connector** — RJ48 (BNC with 75 ohm cable adapter)
- Impedance** — T1: 100 ohms balanced; E1: 120 ohms balanced / 75 ohms unbalanced with adapter
- Clocking** — Network, DTE (TerraUno only), internal
- Data Ports** — EIA530 configurable to V.35, X.21, RS422/449
- Interface Type** — EIA 530; DB25S connector
- Data Rates** — Nx56 kbps or Nx64 kbps (N = 1 to 24 for T1, or 1 to 31 for E1)
- Management Ports** — 10Base-T Ethernet port (RJ48) for Telnet, SMTP, TFTP, SNMP (TerraBoss only); RS232 port (DE9P) for Terminal Interface

MANAGEMENT

- Front Panel Interface** — 2 buttons, 7 LEDs; LineLearn, Data Port Select, Loopback, Line Clock Select, Unit Number, and Self Test Functions
- Web Interface** — Access to all functions via popular web browsers (TerraBoss only)
- Terminal Interface** — VT100-compatible, to 38,400 baud, DE9P connector; browser style with links, frames, and graphical test set
- SNMP** — RFC 1213, RFC 1406, TerraBoss/TerraUno MIB
- Stack Management** — TerraBoss can manage a stack of up to 9 TerraUno DSUs
- Performance Monitoring** — E1: RFC 1406; T1: per AT&T Pub 54016, ANSI T1.403, RFC 1406
- Alarm Reporting** — Configurable severity and thresholds; reporting via dialout, email, and/or SNMP traps; automated trouble-ticketing via email
- Loopbacks** — Network, Payload, V.54, and Data; controlled locally, remotely, and via data port
- Test Patterns** — Framed QRSS, 2047 (full or fractional), 2²³-1, 2²⁰-1, 2¹⁵-1 (E1 with CAS: 2047-bit patterns only); single bit error injection

GENERAL

- Power** — 9 V dc at 1 A or 7.5 V dc at 1.2 A, 9 W maximum; ac converter provided: 100 to 240 V ac, 50/60 Hz
- Dimensions** — (H x W x D, without mounting foot) 8 x 1.75 x 7.5 inches; 20.3 x 4.5 x 19.1 cm
- Unit Weight** — 1.4 lb; 0.64 kg
- Environment** — 0 to 50 °C (32 to 122 °F) ambient; up to 95% relative humidity, non-condensing
- Regulatory Compliance** — FCC Parts 15 & 68; UL 1950; EN60950; EN55024; EN55022 (Class B); EN50082-1; CE compliance with EU directives



FAMILY OF PRODUCTS

- TerraBoss** — T1/E1 DSU with Ethernet management
- TerraUno** — T1/E1 DSU
- TerraMux** — T1/E1 DSU with T1/E1 drop port, Ethernet management

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