

TerraMux

Drop-and-Insert DSU



The TerraMux™ Drop-and-Insert DSU is ideal for businesses needing both voice and data services. By multiplexing two data ports and a voice port onto one full or fractional T1 or E1 line, TerraMux reduces access costs while simplifying the network. With its easy scalability, TerraMux grows with your network.

For ease of installation, TerraMux is the obvious choice. With its unique LineLearn™ capability, TerraMux automatically configures the network and drop-and-insert ports and the speed of the primary data port. So for most applications, you just connect the cables, press a couple of buttons, and you are online.

TerraMux remains the obvious choice if you are looking for advanced features. It leads the field in manageability, with a host of management options including a built-in Graphical Test Set, email alerts for trouble-ticketing, telnet access, SNMP, and web browser interface

The TerraMux provides high performance multiplexing at the cost of a single bare-bones DSU.

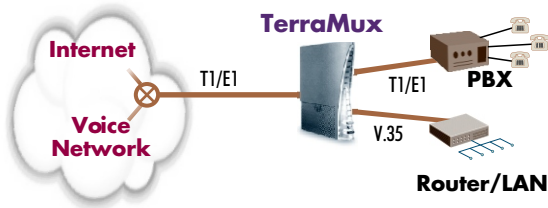
APPLICATIONS

- Integrated access to voice and data services
- Multiplexed end-to-end campus and intranet links
- Dual data ports for LAN redundancy

BENEFITS

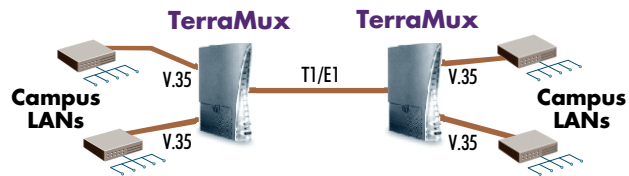
- Provide compatible access with a standards-compliant DSU supporting T1/E1 through the same WAN interface
- Save setup time with plug-and-play installation
- Maximize your network's flexibility with the drop-and-insert port for T1/E1 connection to voice or video equipment
- Simplify network operations with built-in Graphical Test Set, email alerts for trouble-ticketing, telnet access, SNMP support, and web browser interface

Internet and Voice Access Application



When a business or office needs both multi-channel voice and high-speed internet service, TerraMux provides a single access interface via T1 or E1. The result is a cost-saving solution that also enhances network simplicity, flexibility, and manageability.

Campus and Intranet Application



For campus and other point-to-point applications, TerraMux allows two channels to travel on the same T1/E1 circuit. Easy configuration of channel speeds means that the link is easy to adjust as bandwidth needs change. Voice or video can also be added to the mix via the T1/E1 drop-and-insert port.

SPECIFICATIONS

FEATURES

- LineLearn™** — Network interface automatically configures to line (LineLearn); drop-and-insert port matches network interface
- Data Rates** — Nx56 kbps or Nx64 kbps (N = 1 to 24 for T1, or 1 to 31 for E1)
- Powerful Management** — Terminal Interface, SNMP, front panel controls, web browser interface; management of multiple DSUs; advanced performance monitoring and diagnostics
- Graphical Test Set** — Real-time status, diagnostics, and loopbacks
- Email Alerts** — Configurable for trouble-ticketing

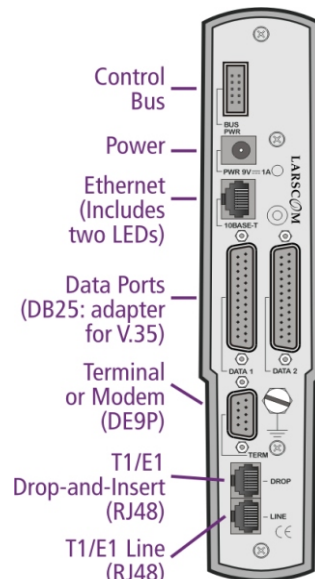
INTERFACES

- Network and Drop-and-Insert Ports** — Full and fractional T1 and E1
- Rate** — 1.544 Mbps (T1) or 2.048 Mbps (E1) ±50 ppm
- 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
- Line Coding** — T1: AMI, AMI with bit 7 stuffing, or B8ZS; E1: HDB3
- Connector** — RJ48 (BNC with cable adapter)
- Impedance** — T1: 100 ohms balanced; E1: 120 ohms balanced / 75 ohms unbalanced with adapter
- Clocking** — Network, DTE, internal, or drop
- Data Ports (2)** — EIA530 configurable to V.35, X.21, RS422/449
- Interface Type** — EIA 530; DB25S connector

- Management Ports** — 10Base-T Ethernet port (RJ48) for telnet, SMTP, TFTP, SNMP; RS232 port (DE9P) for Terminal Interface

MANAGEMENT

- Front Panel Interface** — 2 buttons, 11 LEDs; LineLearn, Port Mapping, Loopback, Line Clock Select, Unit Number, and Self Test Functions
- Web Interface** — Access to all functions via popular web browsers
- Terminal Interface** — VT100-compatible, to 38,400 baud, DE9P connector; browser style with links, frames, and graphical test set
- SNMP** — RFC 1213, RFC 1406, TerraMux/TerraUno MIB
- Stack Management** — TerraMux can manage a stack of up to 9 TerraMux or 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, Data, and Drop (network); controlled locally, remotely, and via data port
- Test Patterns** — Framed QRSS, 2047 (full or fractional), $2^{25}-1$, $2^{20}-1$, $2^{15}-1$ (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; EN55022 (Class B); EN50082-1; CE compliance with EU directives

HEADQUARTERS

39745 Eureka Drive
Newark, CA 94560 USA
toll free: 1 (888) LARSCOM
tel: (510) 492-0800
fax: (510) 492-0808
sales@larscom.com

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