

The space-saving TerraMux II multiplexes two data ports and a voice port onto one full or fractional T1 or E1 line for reduced access costs, network simplification, and scalability. It's ideal for providing both voice and data services.

Enclosed in a metal case, only one RU high and eight inches wide, the TerraMux II can be installed one or two to a tray or used free-standing on a tabletop.

Larscom's unique LineLearn™ capability provides automatic port configuration. For most applications, getting online is as simple as connecting the cables and pressing a couple of buttons.

Management options include a built-in graphical test set, configurable alarm reporting, email alerts for trouble-ticketing, Telnet access, SNMP, and a web browser interface.

The standards-compliant TerraMux II provides space-efficient, high-performance multiplexing at an economical cost.

## BENEFITS

- Conserves valuable rack space
- Streamlines network architecture by supporting T1/E1 through a single WAN
- Requires minimum set-up time with plug-and-play installation
- Maximizes drop-and-insert port flexibility with T1/E1 connections to voice or video equipment
- Simplifies network operations with built-in graphical test set, email alerts, SNMP, web browser interface, and other management options

# TerraMux II™

## T1/E1 Drop-and-Insert DSU



SPECIFICATIONS	
<b>Power</b>	
AC	100 to 240 V AC, 50/60 Hz, 9 watts; converter provided
DC	9V DC
Amps/BTUs	1A@9V DC, 30.7 BTUs/hr
<b>Network and Drop and Insert Interfaces</b>	
Line Rate	T1: 1.544 Mbps, E1: 2.048 Mbps
Framing	T1: D4, ESF; E1: G.703, G.704; E1 unframed
Line Coding	T1: AMI, B8ZS; E1: HDB3
<b>Physical Interfaces</b>	
T1 Line	RJ48C (BNC with 75-ohm cable adapter)
Drop-and-Insert Port	RJ48C (BNC with 75-ohm cable adapter)
<b>DTE Interface</b>	
Data Rate	N x 56 Kbps or N x 64 Kbps (N = 1 to 24 for T1 and 1 to 31 for E1)
Electrical	EIA530 configurable to V.35, X.21, RS442/449
Physical Interfaces	Two DB25S ports
<b>Management</b>	
Front Panel	2 buttons, 11 LEDs
Terminal Interface	RS-232 (DE9P), VT100 compatible
10Base-T Ethernet	SNMP, SMTP, Telnet, web browser
<b>Physical Characteristics</b>	
Usage	Desktop, 19"/23" Tray mount (two units)
Size	Metal enclosure, 1.75" H x 8" W x 7.5" D (20.3 x 4.5 x 19.1 cm)
Shipping Weight	5 lb. (2.27 kg)
<b>Environment</b>	
Operating	0 to 50° C (32 to 122° F); Up to 95% relative humidity, non-condensing

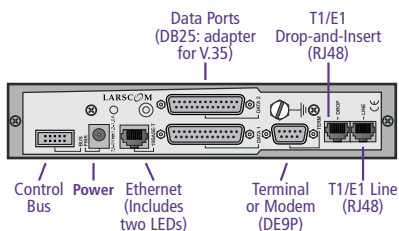
### Typical Application

In this application, the TerraMux II integrates voice, data, and video applications, eliminating the need for a CSU/DSU for each source.



BACK PANEL AND CABLE GUIDE	
	Model No.
<b>Control Bus port</b>	
Bus ribbon cable, tray, connects TerraMux II to TerraUno II or TerraMux II	BUSCABL-TRAY
Bus ribbon cable, connects TerraMux II and up to four TerraUno II or TerraMux II units	BUSCABLE-005
<b>10Base-T Ethernet Port For Management (RJ45)</b>	
<b>DTE Port (EIA530, DB25S)</b>	
<b>V.35</b>	
Adapter, molded DB25P-M34S, DCE-DTE 2.5" one included DB25P to M34S adapter, 1 ft.	A80-LAK10-001 DATAADAP-V35
DB25P to M34S, (EIA530 to V.35) xx ft. (xx = 001, M06, 015, 025, 050)	080-2443-xxx
DB25P to M34P, (EIA530 to V.35) xx ft. (xx = 06, 15, 25, 50)	080-2263-0xx
<b>EIA530</b>	
DB25P to DB25S, (EIA530 to EIA530) xx ft. (xx = 06, 15, 25, 50)	080-2333-0xx
DB25P to DB25P, (DCE to DTE) xx ft. (xx = 06, 15, 25, 50)	080-2433-0xx
DB25P to DB25P (DCE to DCE), xx ft. (xx = 06, 15, 25, 50)	080-2373-0xx
<b>RS449</b>	
DB25P to DC37S, (EIA530 to RS449) xx ft. (xx = 06, 15, 25, 50)	080-2453-0xx
DB25P to DC37P, (EIA530 to RS449) xx ft. (xx = 06, 15, 25, 50)	080-2273-0xx
<b>Terminal Supervisory Port (DE9P)</b>	
DE9S to DE9S, xx ft. (xx = 001, M06, 015, 030, 050)	080-2393-xxx
<b>Drop-and-Insert Port (RJ48C)</b>	
<b>Network Port (RJ48C)</b>	
RJ48C to RJ48C, 14 ft. (included)	410-065-32
Adapter, RJ48C 120-ohm to 75-ohm BNC	190-701-54

Note: M = molded connector, P = plug (male), and S = socket (female).



ORDERING INFORMATION	
<b>TerraMux II Models</b>	
TerraMux II with 14 ft. RJ48C T1 line cable	TERRAMUX-II-NA1
TerraMux II with 14 ft. RJ48C T1 line cable and 75-ohm balun	TERRAMUX-II-NA2
TerraMux II for EU countries	TERRAMUX-II-EU1
TerraMux II for EU countries with 75-ohm balun	TERRAMUX-II-EU2
TerraMux II with UK 3 prong	TERRAMUX-II-UK1
<b>TerraMux II Bundles</b>	
TerraMux-II-NA1, RJ48C T1 cable (14 ft.), molded DB25P-M34S, DCE-DTE 2.5" shielded adapter, two DATAADAPT-V35 V-35 adapters (1 ft.), 080-2393-M06 supervisory cable (6 ft.), manuals, and Silver Service	B-TE6
<b>Related Products</b>	
Service Programs	See page 78
Tray, Terra-II, 1RU, holds two TerraMux II units	TERRA-II-TRAY
Tray extension, holds one converter power supply	TERRA-II-TRAY-EXT
Null modem cable, 6 ft. (DB9S to DB9S)	TERMCABL-DB9
Power supply, 100 to 240 V AC, 50/60 Hz	WANMAKER-P02



### Typical Application II

For campus and other point-to-point applications, TerraMux II allows two channels to travel on the same T1/E1 circuit. LineLearn™ configuration of channel speeds allows the links to be easily adjusted as bandwidth needs change.

