

The TerraMux multiplexes two data ports and a voice port onto one full or fractional T1 or E1 line to reduce access costs while simplifying the network. It provides an easily scalable solution for providing both voice and data services.

With Larscom's unique LineLearn™ capability, the TerraMux automatically configures the network ports, drop-and-insert ports, and the speed of the primary data port. 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 TerraMux offers a vertical design in a plastic case that can be mounted in a tray of two units or in a chassis of up to ten units.

The standards-compliant TerraMux provides high-performance multiplexing at an economical cost.

BENEFITS

- Streamlines network architecture by supporting T1/E1 through a single WAN
- Minimizes 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, web browser interface, and other management options

TerraMux™

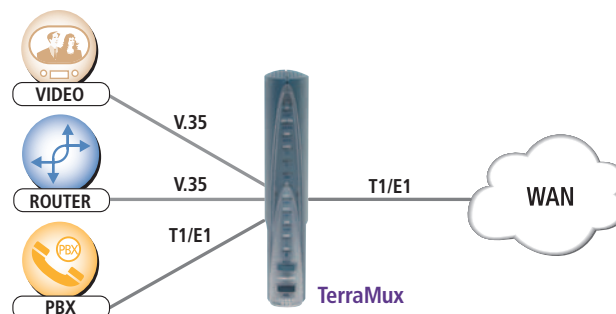
T1/E1 Drop-and-Insert DSU



SPECIFICATIONS	
Power	
AC	100 to 240 V AC, 50/60 Hz, 9 watts; converter provided
DC	9V
Amps/BTUs	1A@9V DC, 30.7 BTUs/hr
Network and Drop and Insert Interfaces	
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
Physical Interfaces	
Line	RJ48C (BNC with 75-ohm cable adapter)
Drop-and-Insert Port	RJ48C (BNC with 75-ohm cable adapter)
DTE Interface	
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
Management	
Front Panel	2 buttons, 11 LEDs
Terminal Interface	RS-232 (DE9P), VT100 compatible
10Base-T Ethernet	SNMP, SMTP, Telnet, web browser
Physical Characteristics	
Usage	Desktop, interlocking stack, wall mount, 19"/23" Tray mount (two units), 19"/23" Chassis mount (up to ten units)
Size	8" H x 1.75" W x 7.5" D (20.3 x 4.5 x 19.1 cm)
Shipping Weight	5 lb. (2.27 kg)
Environment	
Operating	0 to 50° C (32 to 122° F); Up to 95% relative humidity, non-condensing

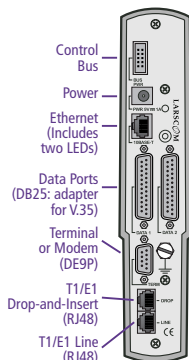
Typical Application

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



BACK PANEL AND CABLE GUIDE	
	Model No.
Control Bus port	
Bus ribbon cable, tray connects TerraMux to TerraUno	BUSCABL-TRAY
Bus ribbon cable, connects TerraMux and up to four TerraUno units	BUSCABLE-005
10Base-T Ethernet Port For Management (RJ45)	
DTE Port (EIA530, DB25S)	
V.35	
Adapter, molded DB25P-M34S, DCE-DTE 2.5"	A80-LAK10-001
DB25P to M34S adapter, 1 ft.	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
EIA530	
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
RS449	
DB25P to DC37S, (EIA530 to RS449) xx ft. (xx = 06, 15, 25, 50)	080-2453-0xx
Terminal Supervisory Port (DE9P)	
DE9S to DE9S, xx ft. (xx = 001, M06, 015, 030, 050)	080-2393-xxx
Drop-and-Insert Port (RJ48C)	
Network Port (RJ48C)	
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	
TerraMux Models	Model No.
TerraMux with 14 ft. RJ48C T1 line cable	TERRAMUX-NA1
TerraMux for EU countries	TERRAMUX-EU1
TerraMux for EU countries with 75-ohm balun	TERRAMUX-EU2
TerraMux Bundles	
TERRAMUX-NA1, RJ48C T1 line cable (14 ft.), molded DB25P-M34S, DCE-DTE 2.5" shielded adapter, two DATAADAP-V35 V.35 adapters (1 ft.), 080-2393-M06 supervisory cable (6 ft.), manuals, and Silver Service	B-TE3
Related Products	
Service Programs	See page 78
Chassis, with one AC power supply, holds up to ten, any mixture, TerraUno or TerraMux units	WANMAKER-CHS
Tray, "19" rack mount, 1RU, holds two TerraMux units or one TerraMux unit and one TerraUno unit	WANMAKER-TRAY
Spare power supply, AC, for Chassis	WANMAKER-CPI
Power supply, 100 to 240 V AC, 50/60 Hz	WANMAKER-PO2
Power cable kit for EU & UK	A89-AK01-001
Balun 120-ohm to 75-ohm adapter	A89-AK03-001



Typical Application II

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

