

# E1 SuperMIX™ DSX

Modular System; Up to 56 or 64 Terminations Per Panel

## Overview

Add the flexibility of DSX to traditional E1 digital distribution frame applications with SuperMIX. This modular DSX system provides a multiple interface point for testing, patching, monitoring, and cross-connecting E1 circuits. A configurable backplane accommodates the termination of E1 switch and MUX equipment through a variety of 75- or 120-ohm impedance connectors.

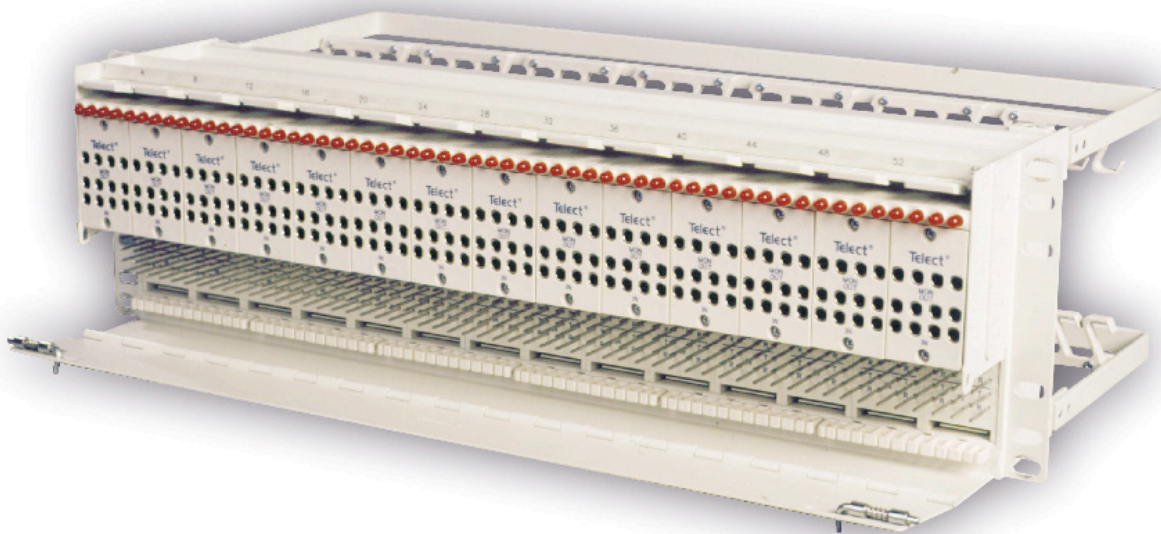
SuperMIX converts E1 cabling media from 75-ohm characteristics to 120-ohm for twisted-pair wire-wrap cross connection on the front of the modules. Individual modules snap into the SuperMIX chassis for instant power connection. The result is vastly improved cable management, distribution frame space savings, installer cost savings, and DSX capabilities (patch, test, monitor, cross-connect) for E1 systems.

## Applications

- High-density central office bays
- Traditional E1 digital distribution frames
- Individual panels for remote sites and other smaller applications

## Primary Benefits

- Chassis options include 58.42 cm (23-in.) and 48.26 cm (19-in.) sizes, providing up to 64 terminations
- Modules come with 4 jacks that accept all standard Bantam-style single and dual patch cords and accessories
- Modules also have manufacturer-configurable backplanes that accommodate any type of switch and MUX coaxial output
- Modular design enables cost management by allowing you to add modules as your network grows
- All Telect DSX products have a lifetime guarantee



# E1 SuperMIX™ DSX

Modular System; Up to 56 or 64 Terminations Per Panel

## Specifications

### Electrical

Power:	-48V office battery for module LEDs
LED drain:	9 mA
Insertion Loss:	±0.5 dB at 772 kHz and 1.024 MHz
Crosstalk:	DS1, DS1C, E1: -60 dB
Return Loss:	-26 dB at 772 kHz and 1.024 MHz
Contact Resistance:	0.01 Ohm
Characteristic Impedance:	75 Ohm/120 Ohm precision baluns for coax inputs; 100 Ohm or 120 Ohm for wire wrap inputs, depending on impedance of interconnecting equipment
E1 Digital Transmission Rate:	2.048 Mb/s at 120 Ohm impedance

### Mechanical

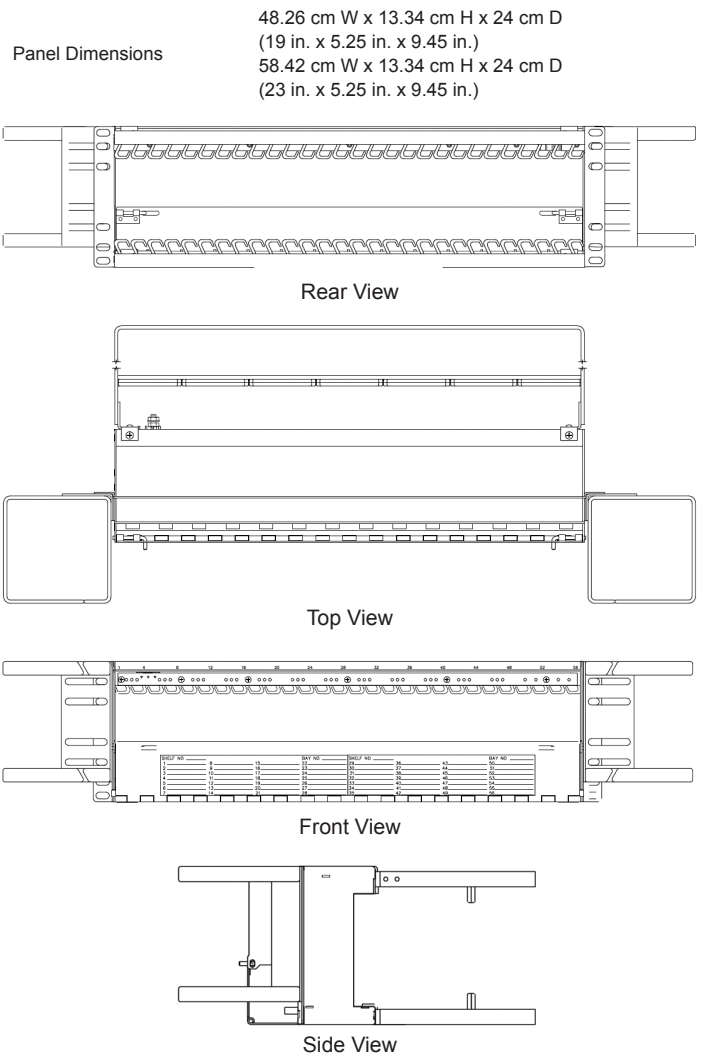
Insertion Force:	1.9 kg. (4.17 lb.) average
Withdrawal Force:	2.4 kg. (5.21 lb.) average
Life:	Minimum 20,000 insertion/withdrawal cycles
Vibration:	Per MIL-STD-202F, Method 201A
Plastics:	Module frame, faceplate, and housing made of Cycolac ABS, grade KJW thermoplastic, UL 94V-0; oxygen index 30%

### Environmental

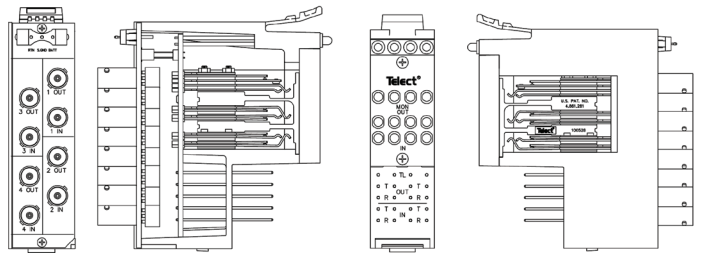
Humidity:	To 95% (operating and nonoperating)
Moisture Resistance:	Per MIL-STD-202F, Method 106E
Salt Spray:	Per MIL-STD-202F, Method 101D
Temperature:	-40 to 149° F (-40 to 65° C) operating -67 to 185° F (-55 to 85° C) nonoperating
Thermal Shock:	Per MIL-STD-202, Method 107D

## Ordering Information

Description	Part Number
<b>Chassis</b>	
58 cm (23-in.)/64-term. (16 module capacity)	010-0000-2701
48 cm (19-in.)/56-term. (14 module capacity)	010-0000-2702
48 cm (19-in.)/56-term with 10x10cm (4x4-in.) cable rings	010-0000-2709
48 cm (19-in.)/56-term with 5x5cm (2x2-in.) cable rings	010-0000-2710
<b>4-Termination Front Cross-connect Modules</b>	
Wire-wrap I/O, wire-wrap cross-connect	010-2704-1100RE
BNC I/O, wire-wrap cross-connect	010-2704-1200RE
RJ48C I/O, wire-wrap cross-connect	010-2704-1800
RJ48C I/O, wire-wrap cross-connect, with +24V LED	010-2704-1801



010-0000-2709 chassis shown



010-2704-1200RE module shown

### Accessories

Single Blue Nickel Bantam patch cords	040-1000-xxx
Dual Blue Nickel Bantam patch cords	040-2000-xxx
Bantam looping plugs	040-3000-0000
5-conductor cross-connect wire, 304 M (1000') reel	060115
10 x 10 cm (4 x 4-in.) ring kit	999-0041-2706
5 x 5 cm (2 x 2-in.) ring kit	999-0041-2702