

**IMUX 2000 T1/E1 MDACS Cross-Connect Switch**

By RFL Electronics  
Catalog # [IMUX\\_2000\\_T1/E1\\_MDACS](#)



The unit provides full featured, Drop-and-Insert capability for each voice frequency circuit or any signal that can be transmitted in a DS0 channel. The multiplexer has electrical and a wide variety of optical fiber (both singlemode and multimode) interfaces to simplify system configuration. Channel cards are available for voice, data, telemetry, teleprotection, video and ethernet applications. It supports many types of network layouts such as Spur, Hot Standby and Ring topologies. The IMUX 2000 T1/E1 MDACS is both hardware and software configurable. The unit offers the ultimate network management system. It operates in a Windows™ point-and-click environment and provides network visibility from any node which allows for remote provisioning, monitoring and alarm reporting. The IMUX 2000 T1/E1 MDACS is compact, modular in design and compatible with previous generations of RFL Multiplexers. For a product that meets and exceeds your telecommunication needs, advance into this new class of hardened multiplexer and make the Intelligent choice, the IMUX 2000 Intelligent T1/E1 MDACS

**Features**

- Substation Hardened-The IMUX 2000 T1/E1 MDACS is designed for harsh environments and has a wide temperature range of -20°C to +65°C. It meets the IEEE/ANSI standards C.37.90-1989, C.37.90.1 and C.37.90.2 for SWC, fast transient and EMI
- Reliability- It provides enhanced reliability by offering optional redundant power supplies
- Speed-The IMUX 2000 T1/E1 MDACS is designed to handle time sensitive applications such as Protective Relaying. The Drop-and-Insert through-channel delay is less than 25 microseconds. It has an average reframe time of less than 25 milliseconds
- DSO Squelching-The IMUX 2000 T1/E1 MDACS has the ability to squelch (turn off) the output of a channel module in the Multiplexer upon loss of synchronization. This feature provides security against false tripping on 4-wire analog transfer trip channels and older digital equipment (with limited error checking) during loss of sync and protects against 'pink' noise conditions, which result from cross-talk or the frame search. This feature is ideal for preventing false tripping due to system malfunction.

**General**

Alarm Type	Alert, cautionary conditions that do not prevent multiplexer operation. Alarm, conditions that directly affect multiplexer
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Application - For Use On	operation, constant monitoring of equipment with alarm reporting. Electric Power Utilities- Designed specifically for the unique need of the harsh substation environments
Catalog Number	IMUX_2000_T1/E1_MDACS
Humidity	0-95% Non-condensing
Interface	Front panel indicators and alphanumeric display RS-232 port for remote access and interrogation Form C relays for shelf alarm and alert
Operating Temperature Celcius Max	+65°C
Operating Temperature Celcius Min	-20°C
Power Supply	75 Watts

**Dimensions**

Cubic Capacity	1446.375 cu.in
Depth	14.5 in
Height	5.25 in
Weight	15 lb
WeightMetric	6.8 kg
Width	19 in

Electrical Ratings

Input Voltage	<ul style="list-style-type: none"><li>• 24 VDC</li><li>• 48/125 VDC</li><li>• 250 VDC</li><li>• 120 VAC</li><li>• 220 VAC</li></ul>
Input Voltage Range	19 to 29 VDC, 38 to 150 VDC, 200 to 300 VDC, 90 to 130 VAC, 180 to 265 VAC

- IEC 1000-4-3:1997
- IEC 1000-4-4:1995
- IEC 1000-4- 6:1996
- IEC 1000-4-8:1994
- DD ENV 50204:1996
- IEC 255-21-2
- IEC 255-21-1
- ANSI C.37.90.2

Certifications And Compliance

Compliance	FCC Part 15 class A
Industry Standard(s)	<ul style="list-style-type: none"><li>• ANSI C.37.90-1989 &amp; ANSI C.37.90.1. EIC 1000-4-2:1995</li></ul>

Product Assets

[Brochures - T1/E1 MDACS Multiplexer with Digital Access Cross-Connect Switch](#)  
[Specifications - IMUX\\_2000\\_T1E1\\_MDACS](#)

