

TDU-4000

TELEPHONE DISCONNECT UNIT

Description

The TDU-4000 provides protection for phones from being used as clandestine listening devices. The unit electrically disconnects the telephone line from the phone when the phone is in the "on hook" position. During disconnect the telephone line is left open, while the voice path on the phone is grounded. This disables room audio from being transmitted onto the telephone line to prevent any eavesdropping. The phone will only connect to the telephone line when it is in the "off hook" position. The "Off Hook" detect and "Ring" detect signals are also opto-isolated from the phone.

A typical link consists of one TDU-4000 with connections to the POTS line and to the subscriber's phone as shown under "TYPICAL APPLICATIONS". FiberPlex recommends "R" units for high security applications because the units have added shielding and filtering for RFI suppression.

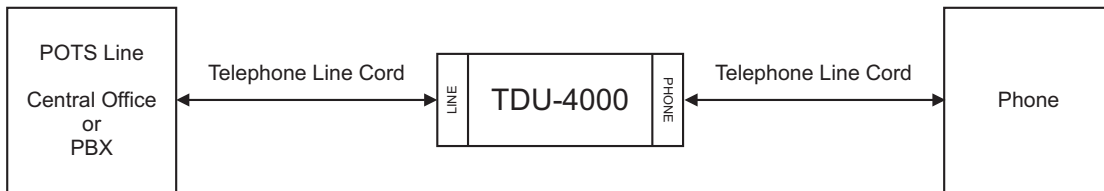


Telephone

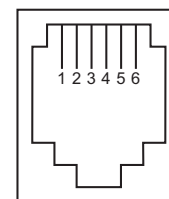
Features:

- Units will not allow propagation of signals to Central Office or PBX when phone is on-hook.
- Compatible with:
 - standard phones
 - STU-III phones
 - fax machines
 - modems

Typical Application



TDU-4000 Front View



LED Indicators

Label	Color	Description
PWR	Green	Power supply in FOI unit is operating properly.
	Off	No power from the PSQ power supply or open fuse inside the FOI unit. Check that the PSQ power supply is operating properly. If the PSQ power supply is good, separate the FOI unit from the PSQ power supply for 30 seconds and then reattach so that the fuse inside the FOI unit has time to reset. If the PWR led is still off or not constant, replace the FOI unit.
RING	Red	Ringing voltage detected.
	Off	No ringing voltage detected.
OFF HOOK	Red	Phone is off hook (in use).
	Off	Phone is on hook (idle).

RJ-11 pinout

Pin	Wire Color	Description
1	White	
2	Black	
3	Red	Ring
4	Green	Tip
5	Yellow	
6	Blue	


Specifications

		minimum	typical	maximum	unit
Power Requirement	Voltage Range	7	9	12	V
	Supply Current	-	525	-	mA
Audio	Input Level	-	-	5	dBm
	Load Impedance	-	600	-	Ω
	Frequency Response (±3 dB)	200	-	8k	Hz
Environmental	Storage Temperature	-40	-	85	°C
	Operating Temperature	0	-	70	°C
Interface Connector	RJ-11				
Case Dimensions	Size 3	length	width	height	weight
		5.75 in (146 mm)	1.453 in (37 mm)	3.188 in (81 mm)	2 lb (0.9 kg)

Accessories

Model	Description
CMA-3002	Chassis Mount Adapter for RMC-3101, RMC-3102
PSQ-3910	Power Supply for FOI-3xxx series
RMC-3101	Rack Mount Chassis, 5-1/4" H x 19"W, front access
RMC-3102	Rack Mount Chassis, 5-1/4" H x 19"W, front access with optical patch panel
WMA-2001	Wall Mount Adapter with optical patch
WMA-3002	Wall Mount Adapter

Ordering Information

TDU-4000 -  **RFI Suppression:**
 Blank = standard unit
 R = RFI suppressed

Standard Options:

TDU-4000
 TDU-4000R

For special applications that require custom units, please call FiberPlex for more information.