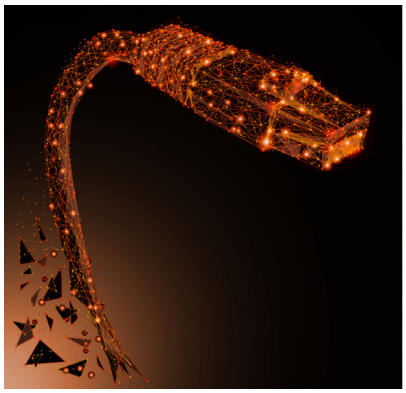
Engage Communication T1 MUX VF E&M Standard



1 or 2 Balanced 4-Wire 600 ohm VF E&M PTT Interfaces

4-Wire 600 ohm Voice Frequency with E&M PTT Multiplexed onto a T1 Circuit

The T1 MUX VF E&M E&M has two E&M balanced 4-Wire 600 ohm Voice Frequency interfaces with Push to Talk Relay transfer signaling that are multiplexed onto 4 T1 Circuits. 1 or 2 of these 4-Wire interfaces can be enabled for different price points.

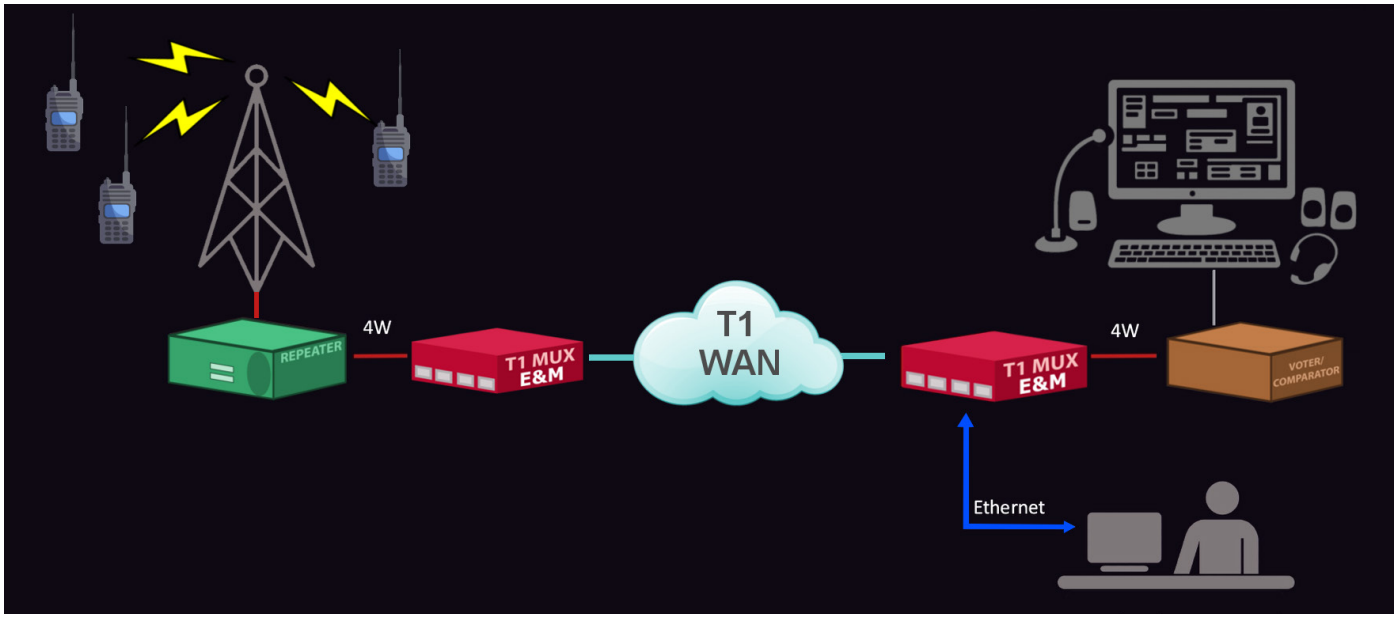
Interconnect 600Ω analog, audio and intercom devices such as Radio Wireline, FSK modems, teleprotection relay controllers over a T1 circuit. The T1 MUX VF E&M employs high resolution Analog to Digital circuitry that maintains the quality of the original audio signal.

The PCM CODEC converts 600 Ohm Analog Voice Band into Pulse Code Modulated u-Law G.711.

Public Safety Radio Tower Wireline Audio over a T1 Circuit

A primary application for the T1 MUX VF E&M E&M is the conversion of Voice Grade 4-Wire E&M circuit interfaces, that connect Public Safety Radio Base Stations to concentrator hubs.

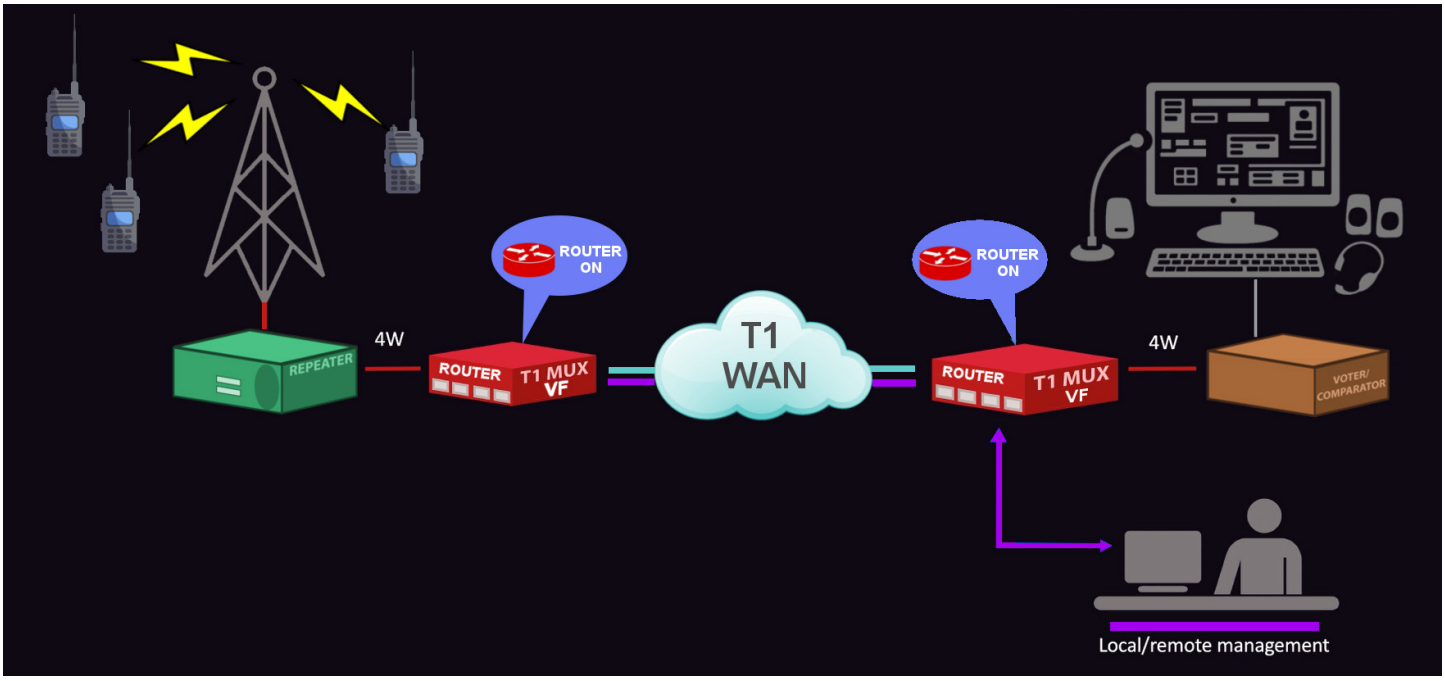
4-Wire leased line analog networks interconnect Voice Band Communications for Utilities Municipalities and Public Safety Agencies.



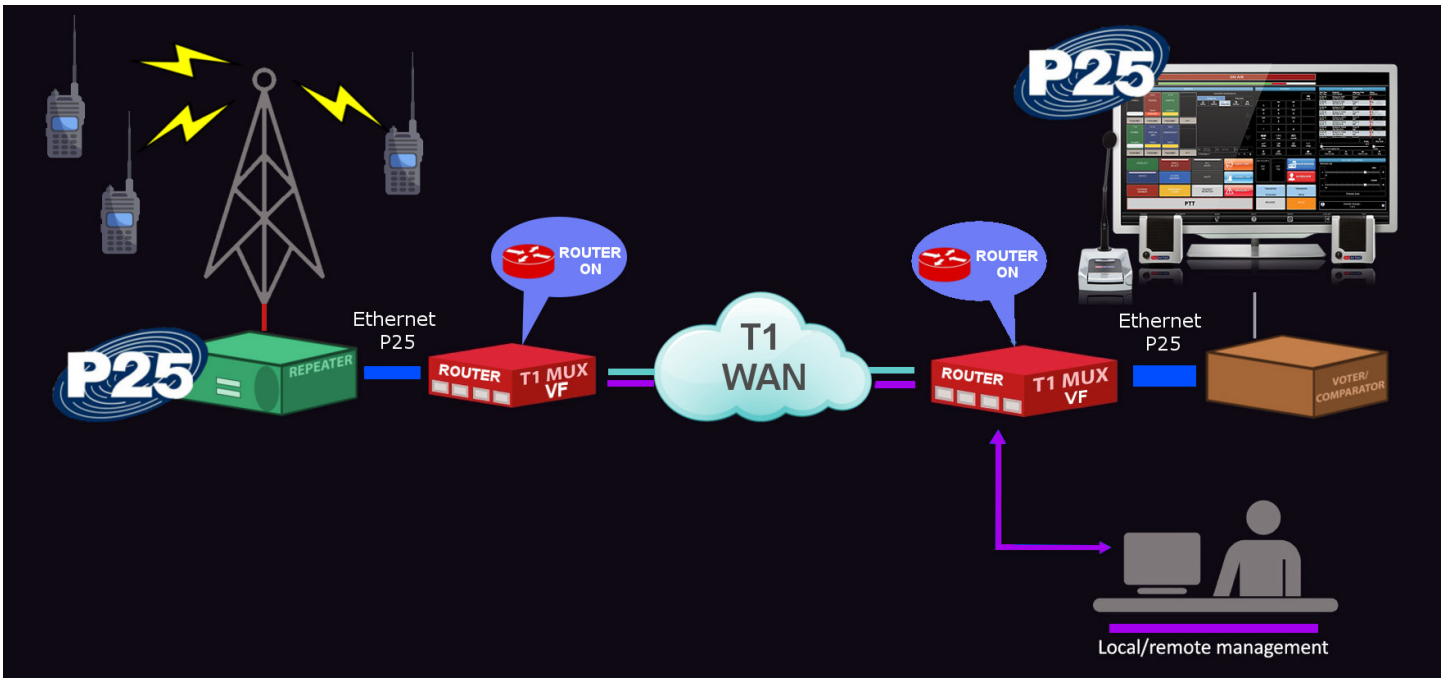
T1 MUX VF E&M Standard

(OPTION: MUX-ROUTER)

The T1 MUX VF E&M can come equipped with routing capabilities ensuring that Management can be routed across the T1 and the remote T1 MUX VF E&M can have its configuration updated all from the central location. The MUX-ROUTER option also allows for a future proof ready path for a



Future proof transition to a P25 digital radio solutions



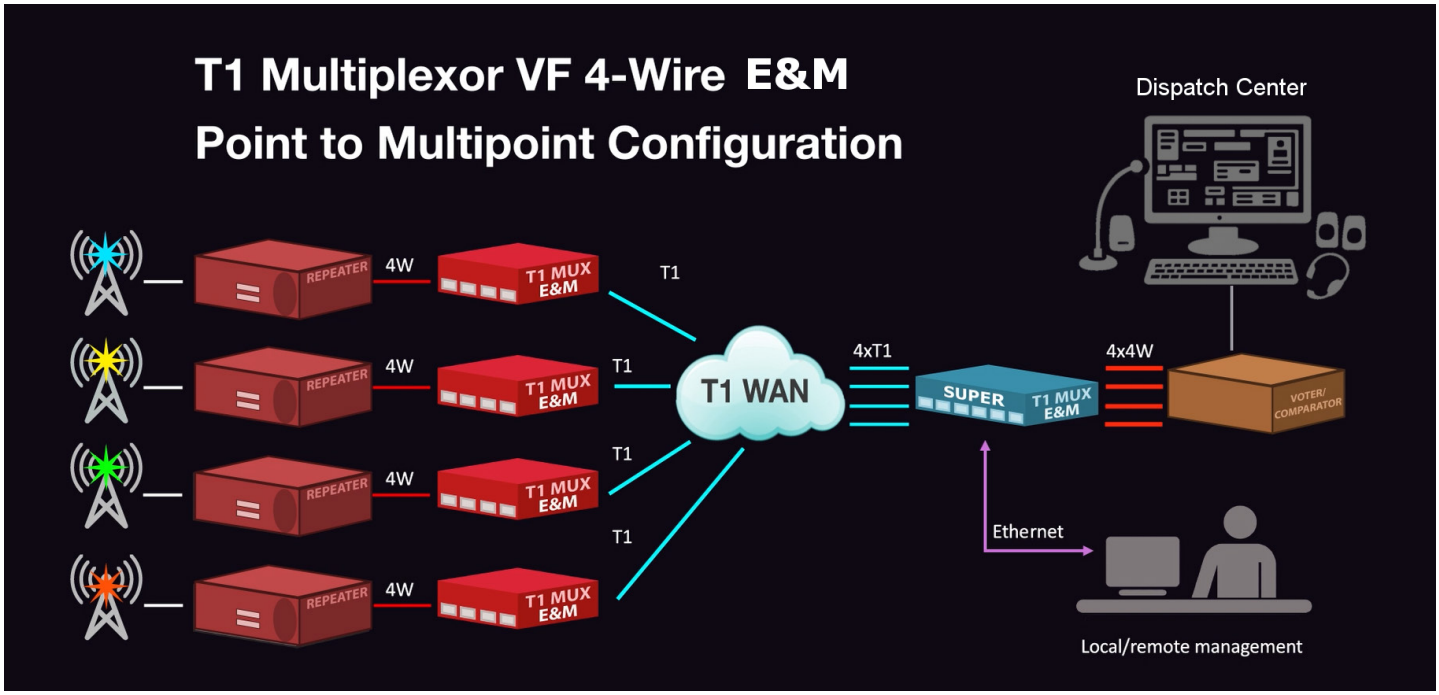
Engage Communication T1 MUX VF E&M Standard

Related Products: Super T1 MUX VF E&M Qty4 4-Wire Analog interfaces

Another model for this solution is the Super T1 MUX VF E&M. The Super T1 MUX VF E&M comes with Qty4 4-Wire Analog interfaces with the ability to go over 4 independent T1 circuits while the Standard is limited to Qty2 4-Wire and Qty2 T1 Interfaces.

The Super T1 MUX VF E&M is compatible and can talk to Standard T1 MUX VF E&Ms and it comes in a 19" wide enclosure.

It comes standard with AC and Dual Wiredc inputs power options and is perfect for a larger central site.



Engage Communication T1 MUX VF E&M Standard

Technical Specifications

T1 Interfaces:

- Framing: ESF or SF/D4
- Line Coding: B8ZS or AMI
- Line Rate: 1.544 Mbps
- Receiver Sensitivity: 0dB to -36dB
- Line Build Out: 0 - 655 ft. (0, 7.5, 15, 22.5 dB)
- Supports DS0 assignments from 1 to 24

4-Wire VF Interfaces:

- Two 4-Wire Full Duplex Voice; 600 Ohm Balanced
- Supports Push to Talk Relay transfer signaling
- Frequency 200 to 3400 Hertz
- CoDec: G711; uLaw

LAN Network Interface:

- LAN1 10/100 Base T (LAN2 is unused)

Management:

- Secure Socket Shell - SSH V2 - Session Encryption
- Telnet
- Console Port: RJ45 RS232 DTE
- NOTE: MUX-ROUTER option is required for Remote Management across the T1 Circuit

Regulatory:

CE • Safety -IEC60950 • EMC - CFR 47 Part 15 Sub Part B:2002, EN55022:1994+A1&A2, EN55024, ICES-003 1997, CISPR 22 Level A

Dimensions:

- Dimensions: 9" (L) x 7.3" (W) x 1.50" (H)

Environmental:

- (-10°C to 60°C) operating temperature
- Up to 90% operating humidity (non-condensing)

Power:

- 12-30 VDC, 1.0A. • Screw Locking Barrel Connector
- Universal Adapter 100/240 VAC 50/60 Hz
- More Power options listed below in the How to Order section

How to Order — T1 MUX VF E&M

Part No.	Description	Notes
T1MUX-01-VFEM4W-01	1 Balanced 4-Wire 600 ohm VF E&M PTT Interface, 1 T1 Interface	
T1MUX-02-VFEM4W-02	2 Balanced 4-Wire 600 ohm VF E&M PTT Interfaces, 2 T1 Interfaces	
	Software Options	
MUX-ROUTER	Equipped with routing capabilities (useful for P25 Future Transition)	
	Power Options	
094-2418	Power Supply Adapter (Standard), Universal International/Domestic With Locking Barrel Connector Input: 100-240 VAC Output: 12 VDC	
094-WIREDC-R	Power Input Option:, DUAL REDUNDANT 10-24 VDC Screw Terminal	
094-N48V-02	Power Input Option:, DUAL REDUNDANT -48 VDC Screw Terminal	
	Rack Mount Options	Specify as suffix
095-1000	Rack Mount Kit - for single 7" products (Fits both 19" and 23" Racks)	Enclosure Nutserts Installed
095-2000	2 unit 19" x 1RU Rack Mount Kit - for 7" products	Nutserts Not Installed