

TELEPHONY GATEWAY

Overview

Mutualink is an IP-based multimedia communication resource sharing platform that allows public safety agencies and critical community assets to communicate in a manner that is separate and apart from the general public.

Mutualink's T-NIC Series of Secure Controllers support the integration of fixed station or mobile radio transceivers irrespective of their operating frequencies or protocols.



- ✓ Safe and Secure over Private Network.
- ✓ Can interface with the radio equipment through a sophisticated, error-free VAD arrangement.
- ✓ Automatic variable delays between PTT and the assignment of a voice channel in a trunked system.
- ✓ Support for standard fixed station interfaces including EIA Tone Remote Control and E&M signaling in either 2 or 4-wire configurations.
- ✓ Can be integrated to consoles and appear as an additional resource to connect to other resources on the console.
- ✓ Integrations to most makes and models of console, consolette, mobile and portable (handheld) radios.
- ✓ Ability to adapt to a wide range of radio systems through a robust assortment of configuration parameters.
- ✓ Ability to change channels on select radio models.
- ✓ Ability to integrate to One, Two or Four different radio models at a time, depending on the model purchased.

T-NIC SPECIFICATIONS

T-NIC M500-260 Series



For more information on any of our products or services please contact us:

 mutualink.net

 (866) 957-5465

 info@mutualink.net

Headquarters:

1269 South Broad Street
Wallingford, CT 06492

Research & Development

3 Lan Drive
Westford, MA 01886

313 S. Jupiter Road, Suite 110
Allen, TX 75002

Rochelaise #26 Bo. Guanajibo
Mayagüez, PR 00682

MECHANICAL	DESCRIPTION
Case Construction:	Ultra Lightweight Aluminum
Case Finish/Color:	Chassis - Black
Case Dimensions (W x H x D):	19" x 1.75" x 11" 1RU Rack Mount 12" X 1.75" X 11" Desk Top (R-NIC and 2xR-NIC Only)
Cooling System:	2 x 25 mm Fans & Chassis Fan
Weight:	Overall Weight 3.3 lbs to 5 lbs based on model
Operating Environment:	0° C to 60° C / 32° F to 140° F
Shock Resistance:	1,500G, 0.5ms
Vibration:	2.17G (5-700Hz)
ELECTRICAL	DESCRIPTION
Power Requirements:	100-240 50/60 Hz @ 1.8A or 12 VDC @ 5A
Power Supply:	External 80W AC to DC Adapter @ 12VDC
CONNECTORS	DESCRIPTION
DC Power:	2.50mm Barrel Connector
ETH0, ETH1 Ethernet Ports:	2 x 8-way RJ45
Analog Radio Port:	1 x DB15 / 2 x DB15 / 4 x DB15
Serial Data Ports:	1 x RS232
Video Ports:	1 x HDMI, 1 x VGA
USB Ports:	2 x USB 2.0, 2 x USB 3.0
FUNCTIONAL	DESCRIPTION
Front Display:	LCD Display with function buttons
Audio Compression:	G.711 (64Kbps PCM) μ -law, G729 Annex B, Linear 16
IP Protocol Support:	Multicast/Unicast RTP, SIP, RoIP, DiffServ QoS
Network Interface:	2 x 10/100/1000base-T, IPv4, IPv6, 802.1q VLAN
Configuration User Interface:	Browser Based
RADIO INTEGRATION	DESCRIPTION
Impedance:	600 Ohm
Termination:	Balanced or Unbalanced (DC Isolated)
Max Input Level (RX):	1 Vpp, (800mV RMS 0dbm)
Max Output Level (TX):	1 Vpp, (800mV RMS 0dbm)
Integration Types:	PTT Wireline Interface (E&M), 2 or 4 Wire EIA Tone Remote control (16 Channel), Crossover wireline to console, Mic/Speaker, Line In/Out Audio
RX Activation:	COR/PTT, VAD Half-duplex, VAD Full-duplex and Always Active
Control I/O: 5VTTL Logic	Input: COR, TX Grant Output: PTT, Power Enable, Channel Select, Monitor
MISCELLANEOUS	DESCRIPTION
Included Accessories:	AC Power Adapter & Cord
Warranty:	1-Year Parts and Labor

December 2021