RADIO GATEWAY

Mutualink

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 R-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.

R-NIC SPECIFICATIONS

4xR-NIC M500-640 Series

2xR-NIC M500-620 Series

R-NIC M500-610 Series

GSA **Schedule**
Contract GS-35F-0006W

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

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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:	3 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 Keypad Display
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:	Web Based

RADIO INTEGRATION	DESCRIPTION
Impedance:	600 Ohm Low Impedance, 47K Ohm High Impedance
Termination:	Balanced or Unbalanced (DC Isolated)
Max Input Level (1kHz):	2.0V p-p / 707mV RMS
Max Output Level (1kHz):	2.5V p-p / 900mV RMS
Integration Types:	PTT/COR Wire Interface, MotoTrbo, 2/4 Wire EIA Tone Remote (16 Channel), P25 (Kenwood, Tait, Sepura)
RX Activation:	PTT/COR, VOX Half-duplex, VOX Full-duplex
Control I/O: 5VTTL Logic	PTT Out, PTT In/COR, Power Enable, Channel Select, Monitor, TX Grant
Ethernet Ports:	2 x 10/100/1000base-T

MISCELLANEOUS	DESCRIPTION
Included Accessories:	AC Power Adapter & Cord
Warranty:	1-Year Parts and Labor