



IP INTEROPERABILITY SOLUTION

Achieve a new level of interoperability and increase communication, safety and productivity by expanding your existing IP network to include your LMR two-way radio users (**RoIP**).

The Ritron **RadioNexus™** network-ready LMR base station transceiver is available in VHF and UHF frequency band models. A built-in RJ-45 connector and Type 3 E&M analog interface allows easy connection to the IP network using a simple router or **VoIP** gateway.

When connected to the IP network via a router or VoIP gateway the Ritron **RadioNexus™** enables compatible LMR radios to communicate across the IP network to **any other networked device** (i.e. PC, laptop, IP phone, cell phone) *including* two-way radios regardless of make, model, frequency band or signaling format (equivalent hardware/software may be required at opposite end). For even greater talk range and/or increased penetration in and around buildings, the **RadioNexus™** can even be programmed to communicate with a radio repeater.



For maximum compatibility with other LMR radios the Ritron **RadioNexus™** can be programmed to work with virtually any brand of VHF or UHF business band radios. Features include: PC programmability, rugged, all-steel, heavy-duty construction, 2 Watt transmitter, Automatic "ON" feature, CTCSS or DCS signaling, wide or narrow band operation, BNC connector for external antenna, local speaker, local microphone jack, small and compact size (only 1.4"H x 3.8"W x 5.6" L), wall or desk mountable, 110 VAC or 12 VDC operation.

VHF "License-Free" models are available

Markets:

- Local, State, and Federal Government
- Businesses
- Schools, Colleges, Universities
- Retail Operations

For over 27 years, Ritron has been designing and manufacturing a wide range of wireless solutions. They include portable and mobile 2-way radios, base stations, radio extender repeaters, radio callboxes, telemetry systems, voice alarm reporters and OEM transceivers.

Ritron recommends a supported Cisco router model 2651XM, 3725 or 3745 with the following installed options NM-HD-2V, VIC2-2E&M.

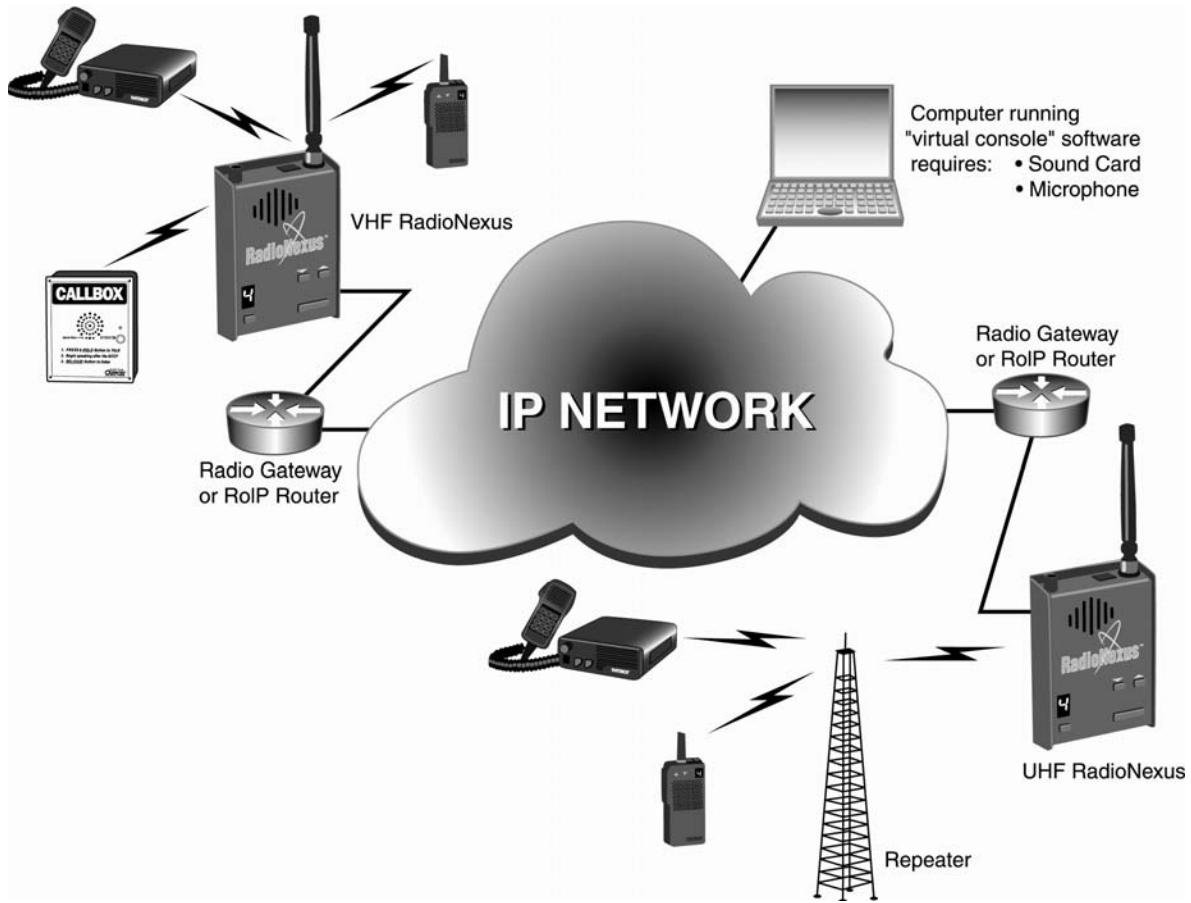
For enhanced communication capability with other network devices and LMR radios, Ritron recommends the WAVE (Wide Area Voice Environment) software application from Twisted Pair Solutions. For a whitepaper on LMR integration go to <http://www.twistpair.com/inc/data/Application%20Brief/wave-app-ab-8.5x11.pdf>



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RadioNexus® Application



Benefits:

- Ritron RadioNexus™ transceiver provides interoperability of VHF and UHF LMR radios as well as other non-radio devices over the IP network.
- Leverage existing investment in different types of communication networks e.g. IP, LMR radios etc ...all can be connected so they work with each other.
- Adds greater value to 2-way radio equipment - communicate with non-radio devices, radios in other bands, over longer distances.
- Better coordination, Safety, Security - allows monitoring of radio system traffic from virtually anywhere on the planet.
- Interfaces easily with other Radio Gateway/RoIP Router products and console application software products.
- Rugged, reliable, plug-and-play transceiver
- Low cost, economical
- MADE IN USA

RadioNexus® Specifications

Model: VHF, NRB-146D, 150-162MHz
 UHF, NRB-446D, 450-470MHz

Channels: 10, manually selectable

Power: 110 VAC to 12 VDC adapter
 or external 12 VDC

Size: 1.4" x 3.8" x 5.6"
 optional mounting bracket

Weight: 1.32 lbs

Interface: Type 3 or 5 E&M, RJ-45

Antenna Connector: BNC

Power Fail: Auto "ON" feature, unit powers up automatically if main power fails

Speaker: Local speaker allows monitoring of traffic

LED Display: Channel indicator, TX indicator,

Signaling: CTCSS or DCS

PC Programmable: PC Programmable to any frequency in the band



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