



Seamless Mission-Critical Communication Solutions for Warfighters and First Responders

NETWORK RADIO GATEWAY



**NETWORK
RADIO
GATEWAY**

- ▶ **Voice and Data Interoperability**
- ▶ **Tactical C2 Integration**
- ▶ **Bridges Disparate Radios**
- ▶ **Scalable, Robust, Stand-alone Network Appliance**

Parraid's EOIP communication products enable users to securely access critical networked information from remote or mobile locations. Information is generated in many forms, encompassing audio (voice), video, and various types of digital data. The Network Radio Gateway allows C2 Integration of Disparate Radios for Voice and Data Interoperability. Our product solutions can provide significant cost savings and allow operational command control that were not possible before.

In its raw form, these various types of information are incompatible and difficult to transport and share. To be networked, information must be in the correct form, that is Internet Protocol (IP). IP information can be easily transferred, switched, and used by applications. Using networked IP information allows sharing of assets from any remote location and having the information in a standard format. Parraid bridges data sources to networks using its Network Radio Gateway (NRG) line. These devices implement hardware and software to turn any available data sources into network-ready information. The systems offer communications through such industry-standard protocols as H.323, SIP, and Multicast; and is interoperable with WAVE, TOCNET, IPICS, Cisco Call Manager, Access Net, SIP phones, generic IP phones, and works with cellular phones.

The Network Radio Gateway is a robust standalone network appliance that offers maximum communications flexibility and improved coordination for many communications requirements and applications including Military, Law Enforcement, Emergency First Responders or any organization where bridging radios over IP is a requirement.

NRG DEPLOYABLE SYSTEMS



The DS-02 and DS-04 models' compact size, rugged fanless enclosure, and low DC power requirements make them ideal for use in the field supporting two to four connected radios and up to 50 endpoints (any combination of users and radios). They can be quickly set up at communication posts, mounted in vehicles, or carried in packs and both feature an easily removable memory card for the operating system.

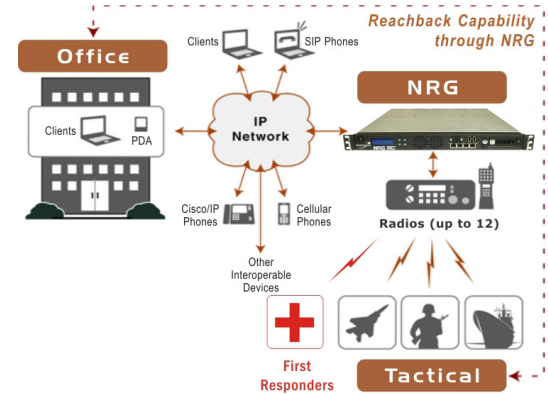
NRG RACK MOUNT SYSTEMS



The Rack Mount models have significant processing power that can support up to 400 conference endpoints. All these models are made to fit into standard 19" equipment racks using only 1U of space. Versions include high reliability latching connections for 4, 8, and 12 radios plus AC or DC power input options. The system software and conference configurations are stored on an easily removable Solid-State Drive (SSD).

BENEFITS

- ▶ Standard Interface - Turns dissimilar radios into more uniform networked resources
- ▶ Intercom/Conference - Allows cross communications between voice sources
- ▶ Legacy Radio Support - Bridges legacy and proprietary radio data to more useable Internet Protocol (IP)
- ▶ Scales up - Multiple units can be combined to scale for larger installations
- ▶ Robust - Fault tolerant and has auto-recovery capability
- ▶ Saves time - Easy to configure and maintain
- ▶ Cost-effective - Allows expensive radios to be shared by many users



CAPABILITIES

- ▶ Versatile Graphical User Interface:
 - TWO VERSIONS:
 - FULL: Detailed version for administrators to fully configure and manage the NRG user environment
 - LITE: Scaled down version of NRG that focuses on radio voice, intercom, and instant messaging communications
 - Remote control, operation, and programming of supported radios
 - Text chat, text paging, and logging
- ▶ Combined radio, voice, and data cables to minimize cabling, size, weight, and cost
- ▶ AC or DC power operation and low power consumption
- ▶ Robust, self-monitoring, self-restoring network uses failover priority (automatic recovery)

Rack Mount Systems

- ▶ Networking support for up to 12 radios and up to 400 endpoints (any combination of users and radios)
- ▶ Easily removable Solid-State Drive (SSD)
- ▶ Fits in standard 1U 19" rack space

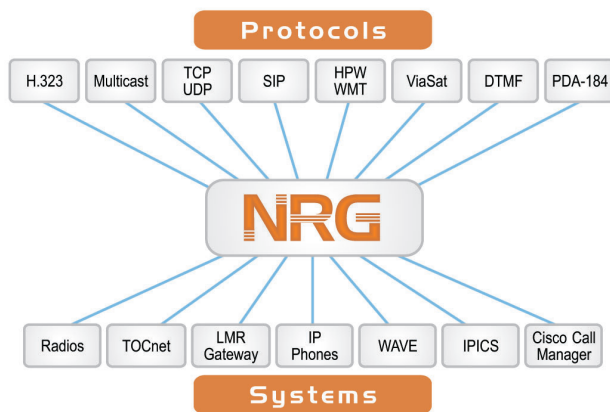
Deployable Systems

- ▶ Networking support for up to four radios and up to 50 endpoints (any combination of users and radios)
- ▶ Easily removable compact flash card for operating system
- ▶ Rugged fanless enclosure for field survivability
- ▶ Small enough for mobile, manpack, or aircraft use

- ▶ Command and Control (C2) Monitoring:
 - Single or multiple radio circuits across IP networks
 - Supports HPW, MIL-STD 188-184 (PDA-184) data technology, ViaSat V-Mail, ViaSat ACP/IP (E-Mail gateway service)

NRG INTEROPERABILITY

NRG is the connecting hub for all supported protocols and it enables seamless mission communications across multiple VoIP/RoIP systems.



AUDIO, DATA & REMOTE CONTROL

- ▶ AN/PRC-117G
- ▶ AN/PRC-117F
- ▶ AN-PRC-152
- ▶ AN/PRC-137
- ▶ AN/PRC-150
- ▶ AN/PSC-5D
- ▶ AN/PRC-148
- ▶ RF-5800

AUDIO ONLY

- ▶ Any audio with standard 5/6 pin
- ▶ H-250/350 style connection
- ▶ SINCGARS
- ▶ HMS
- ▶ Motorola XTL-5000
- ▶ Motorola XTS-5000
- ▶ Motorola XTVA
- ▶ Motorola Micom 3R
- ▶ Raytheon ACU-1000



DESIGN | BUILD | SUPPORT

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EOIP-NRG-PF Rev02

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