



PacStar 466

Tactical Radio Gateway Powered by Parraid NRG

PacStar® 466 tactical radio gateway, an all-in-one, standalone network appliance powered by Parraid Network Radio Gateway (NRG®) technology, revolutionizes communication by seamlessly integrating voice conferencing, high-performance waveform (HPW) data, and remote radio configuration and control into a single, robust platform.

Powered by NRG5 Software for Maximum Interoperability

Harnessing the cutting-edge NRG5 technology, PacStar 466 employs a decentralized mesh network of gateways and clients to support radio over IP (RoIP). This modern infrastructure ensures flawless voice and data support over legacy U.S. Military Combat Net Radios (CNR), Joint Tactical Radio Systems (JTRS), and commercial Land Mobile Radio (LMR) Systems—delivering unparalleled interoperability across diverse communication systems.

Flexible Conferencing with Endless Scalability

Experience unmatched communication flexibility through PacStar 466 with NRG5's versatile conferencing server. Capable of simultaneously supporting multiple audio sources - including analog, digital, cellular phones, and both military and civilian radios - the system allows for seamless communication in either conference or channel mode. Its advanced radio bridging connects like and dissimilar radio devices effortlessly.

NRG5 Fault-Tolerant and Efficient Multiprocessing

Boost your operational efficiency with the NRG5 enhanced multiprocessing capabilities. NRG5 can share workloads across connected appliances ensuring a robust fault tolerant system and offering infinite scalability.

Key Features

- Based on the Parraid's field proven Deployable System DS-04v3 technology
- Compact rugged design with a fanless enclosure – small enough for mobile, manpack, or aircraft use
- Connects two to four radio systems and up to 50 endpoints per PacStar 466 module
- Expand up to 12 radio systems by interconnecting up to three PacStar 466 modules
- Adapts from small command posts to full enterprise integration
- Easy to use and deploy – Turns dissimilar radios into more uniform networked resources
- Front panel indicators system and status tri-color LEDs
- Versatile Graphical User Interface - Windows OS 10/11 Support
- Enhanced radio support – Remote data and radio control
- Command and Control Monitoring – full recording and playback of all radio voice and conference audio

Benefits & Capabilities

- Scalable and Decentralized: Adapts from tactical-standalone command posts to full enterprise integration across IP subnetworks
- Interoperability: Compatible with a wide range of unified communications protocols and systems, including Motorola WAVE, TOCNET, ICE, Cisco Call Manager, AT&T FirstNet, Access Net, LTE, and more
- Enhanced Radio Support: Offers remote data and radio control for both software-defined radios and legacy systems, including LMRs
- Supports Remote Radio Control, PPP, Sync, Async, L3Harris CPA, and HPW WMT
- Future-Ready Transport: Supports a range of transport methods including 5G, Fiber, Mesh Radio, Software-Defined Radio, Starshield, and tactical LANs
- Cost-Effective: Enables shared use of expensive radios across multiple users, reducing overall costs

Interoperability Support

Supported Radios		NRG5 Software: Is the connecting hub for all supported protocols and enables seamless mission communications across multiple VoIP/RoIP systems.
Data	Voice	
AN/PRC-160	Iridium PTT	
AN/PRC-163	Kenwood NX-700/800	
AN/PRC-167	Radio with NATO U-229 audio connector	
AN/PRC-152/152A	Radio with NATO U-329 audio connector	
AN/PRC-117G	Handheld, Manpack, Small Form Fit (HMS)	
AN/PRC-137	Motorola XTL-5000	
AN/PRC-150	Motorola XTS-5000	
AN/PRC-148	Motorola XTVA	
RF-5800	Motorola Microm 3R	
AN/PRC-117F	Raytheon ACU-1000	

Physical Specifications

- Dimensions 5.3" x 7.0" x 1.6"
- Weight 2.2 lbs
- Snap together connector provides DC pass-through for powering additional PacStar 400-Series modules
- Fanless design for quiet operation, high reliability and low power draw
- Operational temperature -20C to +60C
- MIL-STD-810 Environmental (formal results pending)
- MIL-STD-461 EMI (formal results pending)

Power

- Worldwide AC power input (with adapter cable)
- Two (2) radio battery connectors for AN/PRC-152/148 snap on radio batteries; hot-swappable
- Interoperable with PacStar 400-Series power snap- together connector and PacStar 400-Series Smart Chassis
- Power Draw: 14 Watts

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