



# RADIUS



## RADIUS 4 Port Tactical Radio Gateway

The SyTech RADIUS 4 Port interconnects radios, computers, smartphones, and digital intercoms within a unified system of interoperable communications.

RADIUS combines the durability and scalability of the Linux operating system, offering the next generation of the radio-over-IP gateway. The RADIUS 4 Port allows for up to four radio interfaces per gateway. Additional hardware features include field-removable CPU / data drive, LCD screen display and keypad, fast boot-up speed and a compact, ruggedized design. Add the RADIUS Client application for simplified, high-performance command and control, featuring enterprise-grade administration.



### **GATEWAY:**

Interconnects all types of two-way radios including HF, VHF, UHF, and 700/800 MHz. Connects radios, personal computer, smartphones and crewstations.



### **CLIENT:**

Monitor and transmit to dynamic talkgroups created within a simple-to-use graphical user interface.



### **OPERATING SYSTEM:**

The RADIUS gateway and crewstation utilize the Linux operating system kernel, eliminating the need for a server computer.



### **CREWSTATION:**

Intercom among locally connected crewstations using military-type two-way toggle ICS and selectable radio channel push-to-talk microphone headsets.



### **SMARTPHONE:**

Connect with smartphones for remote system access, enabling two-way radio communications from anywhere with cellular, WiFi, or MANET access.



### **INTEROPERABILITY:**

Interoperable with WAVE and Vocality gateways with RADIUS VoIP virtual interfaces.



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## 4 Port Tactical Radio Gateway



### The RADIUS 4 Port Tactical Radio Gateway



- Dimensions: W 22.5 cm (8.85"), L 26 cm (10.23"), H 2.28 cm (2.28")
- Weight: 2.1 kg (4.6 lb)
- Input Voltage: 12 Volts DC
- Current Draw: 14 Watts
- DSub 26 Pin Radio Interfaces (4)
- Operating System: Linux Kernel 4.19+
- Custom Distro with Arago & Yocto
- Processor: TI Sitara ARM Cortex 1GHz Microprocessor

- Temperature Range: -20 C to +70 C Operational, -30 C to +80 C Stored (designed to)
- Four Line, Twenty Character LCD Display
- Removable CPU / Data Drive
- SyTech Crewstations available with Ethernet DNS



### The RADIUS Client Application

- Create dynamic patches among all communication types
- Create Channels for simplified end user access
- Mixed audio for simultaneous audio reception
- Create User Profiles for advanced enterprise management
- Provide permission-based capability to User Groups
- Communicate among multiple RADIUS gateways with federated RADIUS MultiSite Capability
- Operational on Windows 10 and other Windows platforms
- On-screen radio control heads for remote radio control

