



RADIUS 4 Port RPU *Tactical Radio Gateway*

The SyTech RADIUS 4-Port RPU enables operators to connect and crossband all types of two-radios and radio systems. The RADIUS RPU interfaces to all makes and models of HF/VHF/UHF/700/800 MHz for unsurpassed radio interoperability. The RADIUS RPU enables operators to combine radios, computers, smartphones, and other devices within a powerful yet easy-to-use all-in-one graphical user interface.

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, supporting various interface technologies, including analog audio, IP, USB, RS-232, RS-485, CAN bus, and other connection types.



GATEWAY:

Interconnect all types of two-way radios, including HF, VHF, UHF, 700/800 MHz, including conventional and trunking radio systems.



RADIO CONTROL:

Remotely control popular radio models with interfaces for RS-232, RS-485, USB, CANBUS, and IP.



CLIENT:

Create dynamic radio patches or create channels for dispatch-like functionality from a Windows PC.



ADVANCED FEATURES:

Options for Recording/Playback, SIP Telephone Calling, Smartphone Connectivity, and more.



NETWORK:

Connect multiple RADIUS gateways across an IP network for a federated, multisite system of systems for long-distance communications.



INTEROPERABILITY:

Interoperable with WAVE, ICE, and Vocality gateways with RADIUS VoIP RTP Interfaces.



RADIUS

Tactical 4 Port RPU

Powered by two 1.4GHz Quad Cortex™-A53 TI Sitara AM625 with 400MHz Cortex-M4F and 333MHz real-time co-processors, the RADIUS Dual SoM architecture provides the ideal solution for mission-critical embedded solutions requiring analog and digital audio.



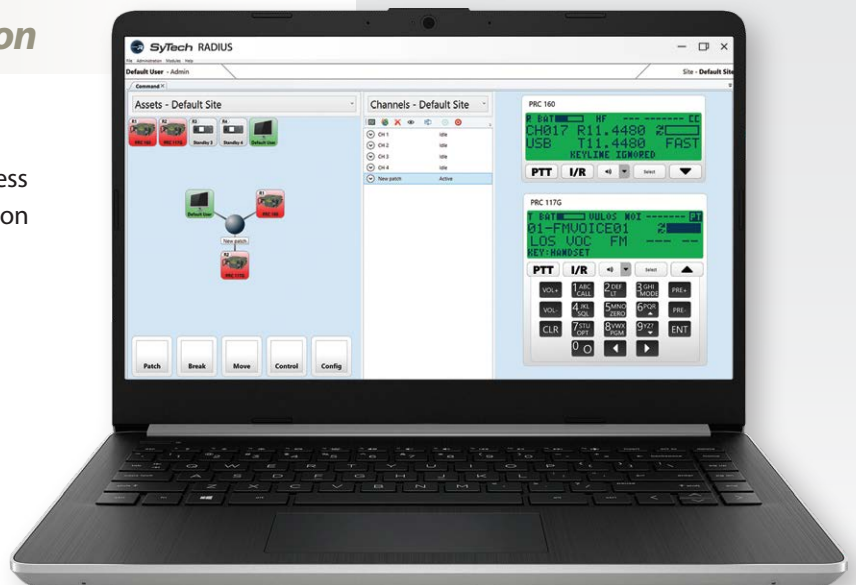
The RADIUS 4 Port Tactical Radio Gateway

- Dimensions: W 14 cm (5.5"), D 22 cm (8.7"), H 5 cm (2.0")
- Weight: 0.9 kg (2 lb)
- Power: 20W
- Input Voltage: DC 12 -30V
- Ethernet: 10/100/1000 Mbps
- DSub 26 Pin Radio Interfaces (4)
- Embedded Linux Operating System
- Texas Instruments "System on Module" design
- Processors: Two 1.46GHz Quad Cortex-A53 Sitara Processors
- RAM: 4 GB, Storage: 32 GB, Expansion: Dual SD Card Slots
- Interfaces include: Analog, USB, RS-232, RS-485, CAN bus and others



The RADIUS Client Application

- Create dynamic patches among all radio and communication types
- Create Channels for simplified end user access
- Mixed audio for simultaneous audio reception
- Create User Profiles for advanced enterprise management
- Communicate among multiple RADIUS gateways with federated RADIUS MultiSite Capability
- Operational on Windows 10/Windows 11
- On-screen radio control heads for remote radio control
- Options for SIP and Archive Recording
- Options for smartphone connections with RIOS LiTE or RIOS LiTE for ATAK



RADIUS Client – with L3Harris AN/PRC Control

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