

SyTech RIOS

The RIOS Ai-16 Series Interoperability Gateway

Connect to all types of trunking, conventional, and repeater radio entry points and networks.

Interoperate throughout the radio spectrum with PTT functionality, limitless audio patches and highly-functional dispatch groups.

Control radio and telephone assets remotely from any RIOS authorized PC connection.

SyTech RIOS Rackmount Installation



The RIOS Ai-16 Gateway

SyTech's Enterprise-Grade Interoperability Gateway

The RIOS Ai-16 Series Interoperability Gateway interconnects noncompatible voice and signaling for seamless patching among trunking, conventional, telephony and smartphone devices. The Ai Series allows for multiple dispatch positions for situations requiring secure, multi-personnel command and control. Remote control functionality is available for most types of mobile and tone-control radios.

The Ai-16 Series offers sixteen (16) software defined high-density interface ports for all types of electronic signalling. Advanced capabilities include scalable modules for video, smartphone log-in, recording and paging applications. SyTech implements the Ai-16 Series for both fixed site and mobile command interoperability requirements.

The RIOS High-Density Sixteen Port I/O Module

The SyTech RIOS I/O Module interfaces to all types of radio systems and communication assets via high-density interface ports specifically designed to adapt to today's changing system requirements.



RIOS IP processing allows RIOS to connect and control various types of IP devices such as smartphones, IP streams and computers while simplifying network configurations but utilizing a single IP address.

Specifications

RIOS I/O Module (R-IOC-AI16)

Interface: High-Density DB 26 Pin, Universal (16)
Audio Input: Balance or Unbalanced 600 ohms;
-68 dBm to +3 dBm, 300 Hz to 3400 Hz
Audio Output: Balanced or Unbalanced 600 ohms;
-68 dBm to +3 dBm, 300 Hz to 3400 Hz
Telephony: -38 dBm to 0 dBm, 300 to 3400 Hz
Ring Detection: 30 Vrms, 16 to 68 Hz
Caller ID: V.23 and Bell 202
Digital I/O 1: Two-Step PTT
Digital I/O 2: Full RS232 for RoIP
DSP Algorithms: Intelligent VOX or VM, DTMF
Detection and Generation, TX Keying Tones, TX
and/or RX Audio Relay

RIOS Server (R-SERV-3000)

Processor: Intel Core2 Dou 2.2 GHz
Storage: 300 GB (DVD archive available)
Operating System: Windows XP
DVD+RW
Ethernet: 10/100 Base-T (3)
USB: Standard (6)
VGA Monitor, Keyboard and Mouse Required
Dimensions: 3.5"H, 19"W, 20"D (8.9, 48.3, 50.8 cm)
Server: 2U, I/O: 1U

Network

Topology: Peer-to-Peer
IP Addressing: One per Server
Network Interface: RJ45

