

# SyTech RIOS

## The RIOS Tactical Interoperability Unit

**Prepare** your agency with the most advanced all-in-one interoperability system in the world.

**Deploy** immediately to the most challenging environments with a standalone weather-resistant case.

**Connect** to all signalling platforms including HF, VHF, UHF, 700/800 MHz, land lines, cell phones, iDEN push-to-talk and P25 devices.

**Communicate** to all assets with push-to-talk dispatch, instant recall, simultaneous tone alerts and other high-tech RIOS features.

**Network** to anywhere in the world with ethernet, satellite or wireless IP network integration.

Mil-Spec HD Interface Connectors



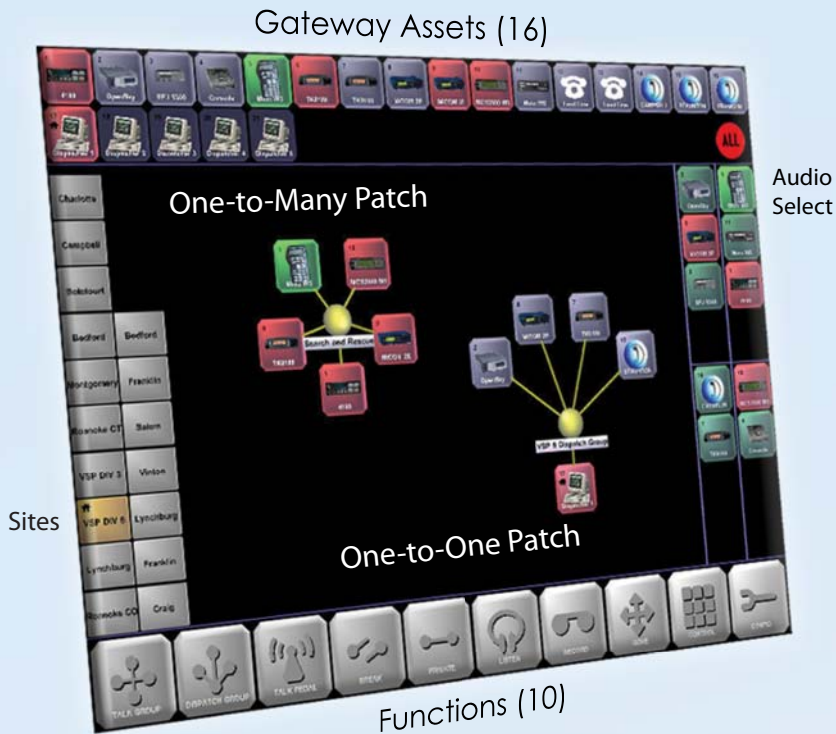
### The RIOS Tactical

#### SyTech's 8 Channel Tactical Interoperability Unit

The RIOS Tactical integrates the RIOS ICS within a standalone interoperability case perfect for emergency deployment applications. The RIOS Tactical offers 8 mil-spec interface ports featuring software-defined, universal SmartRIB™ connections that accept all signaling devices and platforms. The RIOS GUI allows operators to quickly patch and communicate through low-band, VHF, UHF, 700/800 MHz, land line, cell phone, iDEN push-to-talk, and P25 devices. With the RIOS Tactical your team is always prepared to command and control the situation regardless of platform, frequency, or device.

The all-inclusive RIOS Tactical improves response time, eliminates PC connectivity errors and protects the unit from adverse weather and environmental conditions. The built-in cable compartment limits the probability of misplacing vital equipment and interface cables when they are needed most.

# The RIOS Graphical User Interface (GUI)



The RIOS Graphical User Interface displays an entire communications landscape within an easy-to-use graphical workspace. Real-time indicators relay current activity, connected assets and available sites.

Operators of RIOS GUI can instantly:

1. Patch between local and remote assets
2. Transit to local and remote assets
3. Send customized tone alerts
4. Record and playback audio traffic
5. Create 1-to-1 and 1-to-Many Patches
6. Notify all assets with "All Call" button
7. Monitor with select/unselect audio
8. Remotely control assets
9. Load device profiles and pictures
10. Send internal text messages

## Specifications

### General

AC Input: 115 to 230 VAC, 47 - 65 Hz  
DC Input: 11 to 15 VDC at 5A Nominal  
Weight: 38 lbs (17.2 kg)  
Dimensions: 8.75"H, 25.5"W, 20"D (22.2, 64.8, 50.8 cm)  
Operating System: Windows XP  
Storage: Static-State Flash

### Ports

High-Density 26 Pin, Universal Compatibility (8)  
Ethernet: 10/100 Base-T (2)  
USB: Standard (2)  
Audio: Microphone In, Audio Out

### Interface

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 Hz 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

### Network

Topology: Distributive Mesh  
IP Addressing: One per Server  
Vocoders: G.711, GSM

