

# ACU-T™

## TACTICAL INTEROPERABILITY



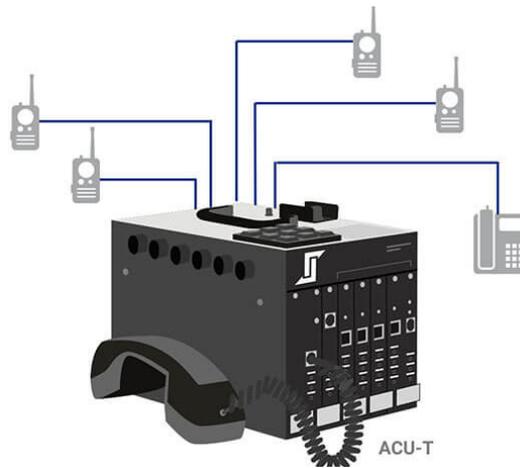
### OVERVIEW

With JPS' ACU-T Tactical Interconnect System, a radio gateway can be rapidly configured and deployed to meet almost any interoperability application involving radios and telephones and Radio over Internet Protocol (RoIP).

The ACU-T provides tactical packaging for the proven ACU-2000 modular interoperability system. The flexible control and status monitoring options of the system make it truly flexible and versatile. Interconnections between any of the system radios and telephones (and a local operator) can be initiated and terminated in a variety of ways:

- Local operator using the system keypad
- DTMF signaling from radios or consoles
- ACU Controller software to configure and control the unit via IP link

The six devices interfaced to the ACU-T (radios, telephones, and local operator) can be interconnected in any combination from three nets of two users, to a single net with all six users connected together.



### FEATURES

The ACU-T's keypad, handset, speaker, and LEDs allow full local control and monitoring of the interoperability system. The ACU Controller and WAIS Controller software provide multipoint control and monitoring capability over a network. The control software and DSP algorithms allow the ACU-T to be optimized for best performance with connected radios or other equipment.

All of the interface features that made the 19' rackmount ACU-2000 the industry leader in interoperability solutions are available with the ACU-T, including: a choice of VOX, VMR, or Hardwired COR, Digital Audio Delay, and COR Sampling to ensure that a false key or noisy signal can't tie up a net.

### KEY BENEFITS

- + Modular tactical interoperability system employing proven ACU Technology
- + Small, rugged design suitable for tactical and rapid deployment applications
- + Sophisticated DSP algorithms provide adaptive hybrid, VOX, VMR (voice modulation recognition), and noise reduction
- + Deployable as an above or below ground repeater. Radios can be located up to 1000' away using optional extension cables.
- + Custom interface cables available for over 300 radio models
- + ACU controller software provides full system status
- + Connects up to six communications sources (including local handset) in any configuration from three two-way conversations to a single six-way conference

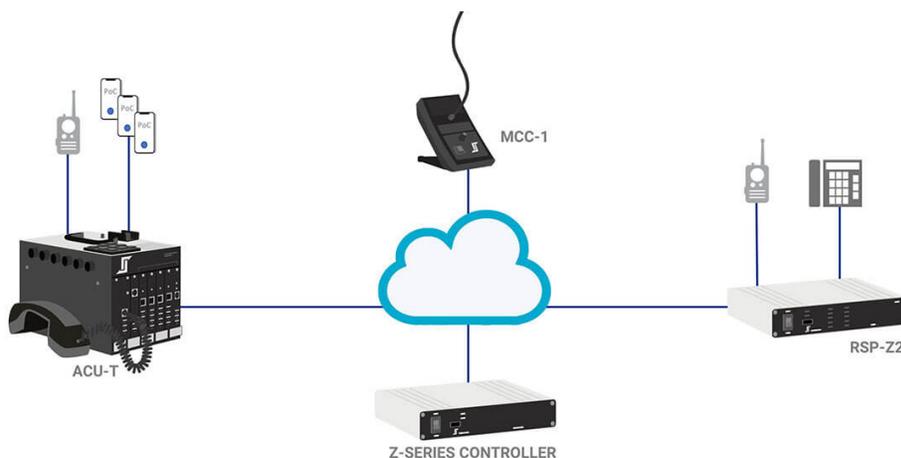
## APPLICATIONS

The ACU-T, like the ACU-2000, offers a truly modularized approach to controlling and interconnecting various types of communications systems. The basic system components are interface modules, each designed to connect a specific communications medium. The ACU-T's interface modules are the same as those used in the ACU-2000, and the internal and control software are likewise compatible between the two products.

The ACU-T provides all of these features in a small rugged unit suitable for rapid deployment in a tactical or vehicular environment. Weighing less than eight pounds, the ACU-T incorporates a drip-proof top cover, quick connect/disconnect CPC connectors for radio interfacing, and a keypad, speaker, and handset for local control and monitoring. The unit is DC powered, allowing easy battery or vehicular

## CAPABILITIES

- Voice prompts/LEDs provide connection status for each port and guide operation
- Interconnect radios in any band including HF, VHF, UHF, P25, 800Mhz
- Radio templates for supported devices provided in ACU Controller software allow quick setup and optimization
- External audio connectors for handset and headset support



## SPECIFICATIONS

### Size

6.75" H x 6.75" W x 10.5" D (17.2 x 17.2 x 26.7cm)

### Radio Interface

Audio Input: Balanced or Unbal 600Ω or Hi-Z; -26dBm to +12dBm levels; 100Hz to 3200 Hz; Audio Output: Balanced 600Ω; -26dBm to +12dBm levels; 100Hz to 3200 Hz

### Input Power

+11 to +15 VDC, 4A max

### VoIP/RoIP Interfaces

SIP (GSM and G711μ); Telephone (RJ-11 Connector; -24 dBm to 0 dBm levels); RoIP (Audio delay and jitter buffers to handle network latency; embedded COR and PTT; five audio VOCODERS)

