ACU-M™

Mission Critical Interoperability

The ACU-M provides the functionality and reliability of the proven ACU technology in a compact design. Weighing less than 3 pounds, the ACU-M can be deployed anywhere and its affordable price makes it ideal for any agency.

ACU-M Overview

Competent interoperability is a key component of incident preparedness and situation management. And when you're in the field during a crisis, what you care about most are speed, simplicity, and reliability. The answer is our ACU-M. A compact, easily portable and quickly deployable interoperability gateway, the ACU-M is feature-rich, simple to use and can be networked and managed remotely. Its intuitive interface enables sure operation and provides field diagnostics and programming capabilities.

The ACU-M incorporates the features of our proven ACU technology in a smaller package ideal for mission critical deployment. With its comprehensive suite of DSP functions, the ACU-M offers significantly higher functionality than any of its competitive counterparts at a price that fits any budget. The devices interfaced to the ACU-M can be interconnected in any combination - from three independent nets, to a single net with all users connected together. The ACU-M offers maximum portability, helping to quickly establish command and control in various field applications. Small enough to be easily transported, robust enough to compliment any communications suite, the ACU-M is the new standard for mission critical interoperability.

Benefits

- Any combination of cross-connections possible between four radio ports, local handset, and optional VoIP ports
- Top panel pushbuttons control these connections and display gives quick status of connections as well as that of connected devices (COR, PTT, audio signal level, and network link active)
- Quick configuration via top panel using stored radio templates for hundreds of common radio models
- Versatile, portable, and affordable
- Inclusion in a Wide Area Interoperability System (WAIS) enabled by VoIP option
- Pelican case option allows power by vehicle 12 volts and includes battery, charger, and storage slots
- Remotely upgradeable via Ethernet port
- Easy installation in vehicle or equipment rack using the snap in bracket provided with each unit

Networked ACU-M

The ACU-M Network Option provides a pair of RoIP (Radio over IP) channels that allow remote radios to be interfaced to the unit via JPS NXU-2A devices, or allow the ACU-M to be included in a WAIS (Wide Area Interoperability System). A WAIS can include any number of operators and communications end points (radios, phones, etc.) interfaced via ACU-Ms and other ACU devices, all networked together. The RoIP channels can be purchased upfront or electronically upgraded later. The RoIP channels are accessed via the ACU-M Ethernet port. This port is active whether or not the Network Option's RoIP channels have been activated, and is always available for monitor and control via the ACU Controller software that is provided with each ACU-M.

Transportable Case Option

A very handy option is available that bundles the ACU-M bundled with four radio interface cables and the RoIP network option, all installed in a rugged foamed lined carrying case with rechargeable battery. This option maximizes ACU-M functionality and ease-of-use while minimizing set up time, a crucial equipment when responding to disasters or other incidents that require interoperable communications.

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Solution Summary

- Interconnects 4 audio devices; 2 VoIP channels; and local operator
- Cross-connections between devices controlled by top panel pushbuttons or ACU Controller software
- LEDs provide connection status and diagnostics for each port
- Compatible with existing ACU cables
- Can interconnect radios in any band including HF, VHF, UHF, P25, 800Mhz, and iDEN phones
- Internal pre-configured radio template library for all supported devices
- Water-resistant top panel with integrated pushbuttons and displays provides full local control and configuration capability
- Local monitor functionality
- Voice prompts indicate changes in connection status
- Upgradeable system software via network connection
- Control & connection to a WAIS using the WAIS Controller (requires networked version)
- External audio connectors for a variety of handset and headset support

Applications

- Mobile
- Fixed
- Tactical
- Transportable Pelican case (includes rechargable battery)

Mission Support

- Self-paced training CD
- Optional extended warranty (additional charges will apply)
- Professional and Engineering services (additional charges will apply)

Upper: An ACU-M top panel showing LED indicators reflecting current status of connections as well as real time PTT/COR activity for each port.
Bottom: Rear view of ACU-M featuring audio, Ethernet, serial and power ports.

Specifications

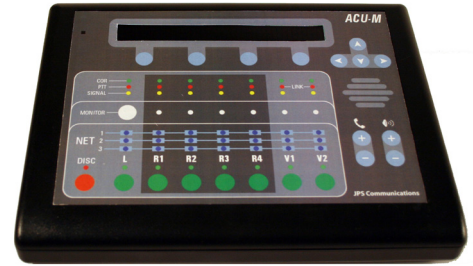|	
RX Audio Input Impedance: Balanced & Unbal Hi-Z	
RX Audio Input Level: -26 dBm to + 12dBm	
TX Audio Output Impedance: Unbal 600 ohms	
TX Audio Output Level: -26dBm to +12dBm	
Throughput Freq. Response: 200 to 3200 Hz +/- 3dB	

General/Environmental

DC Input Power: +9 to +15 VDC @1A Average nominal	
Size: 3.1" x 8" x 11" HDW (6.3 x 20.3 x 25.4 cm)	
Temperature: Operating Temperature: -20 to +60 degrees C.	

JPS Interoperability Solutions