Raytheon

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.

Benefits

- Top mount display provides a quick indication of current interoperability cross-connections and illustrates the status of connected devices (COR, PTT, signal, and network link).

- Simple, intuitive interface used for diagnostics, programming and feature control.

- Optional network connectivity that can be controlled via WAIS Controller Software.

- Can be installed in a vehicle, in a rack, or in a Pelican case.

- Versatile, portable, and affordable.

- System is upgradeable through the Ethernet port.

ACU-M Overview

Interoperability is all about incident preparedness, situation management, and system reliability. But when you're in the field, in a crisis, what you care most about is speed and simplicity. The answer is our ACU-M. A miniature version of our powerhouse ACU-1000, the versatile 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 into 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 audio 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 new design offers maximum portability to meet the demands of establishing command and control in various field applications. Small enough to be easily transported and robust enough to compliment any communications suite, the ACU-M is the new standard for mission critical interoperability.

Networked ACU-M

The ACU-M can be electronically upgraded to enable network connectivity and control. This feature-rich capability allows the ACU-M to be easily controlled anywhere on a network and in a variety of field applications.

The network connectivity allows multiple ACU devices to be linked by an IP network and managed with the Wide Area Interoperability System (WAIS) Controller software, the system's graphical user interface. Operators stationed at control points can easily monitor communications and form or disband multiple user talk groups anywhere on the system.

ACU-M

Capabilities

- LEDs provide connection status and diagnostics for each port
- Compatible with existing ACU cables
- Interconnects 4 audio devices; 2 VoIP channels; and local operator
- Can interconnect radios in any band including HF, VHF, UHF, P25, 800Mhz, and Nextel iDEN phones
- Internal pre-configured radio template library for all supported devices
- On-board and startup self-test diagnostics with remote diagnostic capabilities
- Water-resistant front panel with integrated keys and displays provides a standalone interface to the device in lieu of configuring and controlling by use of a PC
- 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

Mission Support

- Self-paced training CD
- Optional extended warranty (additional charges will apply)
- Professional and Engineering services (additional charges will apply)
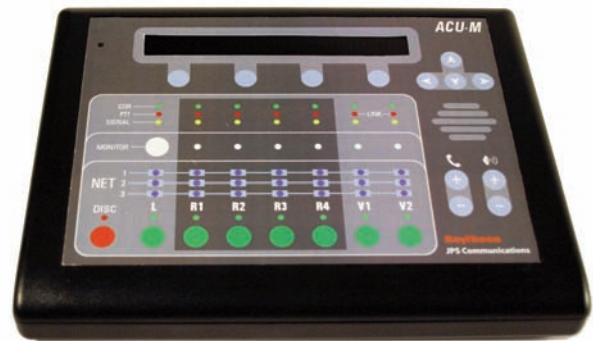
Photo caption: Upper: An ACU-M top panel showing LED indicators reflecting connection status and diagnostics for each port. Bottom: Rear view of ACU-M featuring audio, Ethernet, serial and power ports.

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 $\pm$ 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. Storage Temperature: -40 to +80 degrees C.
Humidity :	Up to 95% @ 55 degrees C.
Shock:	MIL-STD-810D, method 516.3, procedure VI
Vibration:	MIL-STD-810D, method 514.3, category I

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