

CONTRACT # USZA22-97-D-0019
MULTIBAND INTER/INTRA TEAM RADIO (MBITR)

- a. System Engineering Design
- b. Program Management
- c. Production
- d. Data
- e. Contractor Depot Logistics Support
- f. Training

The United States Special Operations Command (USSOCOM) has a requirement for a Multiband Inter/intra Team Radio. This handheld radio will replace numerous fixed frequency/banded handheld radios, such as the AN/PRC-126, AN/PRC-68, MIX-300, MX-300S, and MX-300R. With the implementation of Electronic Counter/Counter Measures (ECCM) in accordance with the requirements of the amended specification, the radio will also be compatible with radios that perform in accordance with the SINCGARS SIP and HAVE QUICK II waveform including the AN/PRC-119 and AN/PRC-113. The MBITR program is intended as an acquisition of Non Developmental Items (NDI). Modification of existing NDI to meet the requirements of the MBITR Specification will be allowed. The performance of the MBITR will be governed by the MBITR Performance Specification.

MBITR will provide Special Operations Forces (SOF) teams with the ability to communicate on a user selected frequency from 30 to 512 megahertz (MHz) utilizing a single handheld radio with embedded Communications Security (COMSEC) compatible with both VINSON and FASCINATOR. The MBITR will enhance SOF communications by replacing multiple handheld radios such as the AN/PRC-126, AN/PRC-68 MX-300S, MX-300R, MX-350 and Scope Shield II. These older systems are all either single band operation, not field programmable or obsolete. The MBITR will enhance communications interoperability among SOF and conventional units and will reduce the types and quantities of handheld radios currently required to support SOF missions. With the implementation of ECCM performance, the MBITR will further enhance the communications of SOF and other potential radio users, including the United States Marine Corps (USMC), by increasing the radio's functionality to include the SINCGARS SIP and HAVE QUICK II ECCM waveforms.

CONTRACT # GS-35-F-0001L
MULTIBAND INTER/INTRA TEAM RADIO (MBITR) EQUIPMENT:

This effort shall include delivery of MBTR Equipment.

The AN/PRC-148(V) (C) MBITR covers a contiguous 30 to 512 MHz broadband frequency spectrum in a small, lightweight, less than 33 ounces and 34 cubic inches, handheld radio package. It is a Controlled Cryptographic Item (CCI) as it contains US Type 1 encryption and has AM and FM modes for voice or data as well as selectable RF Output Power, from 100 mW to 5 Watts. The Radio is immersible to either 2 meters, Urban configuration, or 20 meters, Maritime configuration. Electronic Counter-Counter Measures (ECCM) software features for frequency hopping, SINCGARS and HAVEQUICK II are available, as well as ANDVT, 5 KHz narrowband 2400 baud voice and data, and re-transmission. This radio provides unprecedented interoperability with existing commercial and military legacy radios. It is software based and supported by flash memory for easy upgradeability. The radio unit contains a keypad, display and internal speaker microphone.

VEHICLE ADAPTERS

MA6943, Vehicle Adapter, MBITR plugs into the Vehicle Adapter (VA) providing a “jerk and run” capability when the MBITR is required as a handheld radio. 12 to 32 VDC power input, 20W or 5W RF power output. Integrated harmonic filters and tunable co-site filters are included. Removable Control Head (RCH) with cord connected to the VA, 6-pin Hirose connector provided for audio accessories; the RCH replicates the display, keyboard and other controls of the MBITR that are not accessible with the radio inserted into the VA. Two 6-pin connectors provided on the front of the VA unit, one for the range of existing MBITR audio accessories and the other as a data interface.

MA6943-SYS, Vehicle Adapter System, Vehicle Adapter unit with a shock mount tray, 30-512 MHz broadband vehicle mount antenna and external loudspeaker with associated cables.

MA7036, Vehicle Adapter Amplifier, Assembly consists of two Vehicle Adapters (VA), two MBITR Urban radio systems and Interface Tray. Installs onto existing MRC-143 mounting tray. Compatible with existing mounting SINCGARS vehicle antennas (available separately). Provides 5 or 50 watts power output on 12 to 32 VDC vehicle input. Maintains all functionality of the MBITR (AN/PRC-148) handheld radios in a “jerk and run” configuration. Integrated harmonic filters and tunable co-site filters are included. Removable Control Head (RCH) with cord connected to the VA, 6-pin Hirose connector provided for audio accessories; the RCH replicates the display, keyboard and other controls of the MBITR that are not accessible with the radio inserted into the VA. Two 6-pin connectors provided on the front of the VA unit, one for the range of existing MBITR audio accessories and the other as a data interface.

CONTRACT # M67854-05-7013
STATEMENT OF WORK
ORGANIC INTERMEDIATE MAINTENANCE ESTABLISHMENT and LIFE CYCLE
SUPPORT OF THE
AN/PRC-148 MULTIBAND NTER/INTRA TEAM RADIO (MBITR)
FOR THE
UNITED STATES MARINE CORPS

United States Marine Corps Tactical Hand Held Radio (THHR) program: The effort shall include Production of End items, Production of Secondary Items, Spares, Program Management, Contractor Depot Maintenance, Organic Intermediate Level Maintenance, Training Classes, Warranties, and Data

The United States Marine Corps (USMC) has a requirement for continuing acquisition and support of the AN/PRC-148 MBITR under the Tactical Hand Held Radio Program. The initial US Special Operations Command (USSOCOM) support concept for the MBITR was Contractor Depot Logistics Support for all maintenance above organizational level. The USMC intends to modify this support concept to transition to an organic intermediate level maintenance capability, combined with purchase of an extended warranty until such capability can be fully implemented.