

The MC4 is a robust radio, waveform and bearer agnostic communication system, which extends the distribution of voice, video and data communications simultaneously throughout the battlefield.

Introducing The Ultralife MRC-MC4



MOBILE COMMAND, CONTROL, COMMUNICATIONS, AND COMPUTERS

The Ultralife MRC-MC4 addresses the latest radios, waveforms, amplification, MANET, ISR, COP, networking, computing and data storage technologies bringing cutting edge technologies together in a streamlined and well integrated flexible package that can be utilized in vehicles, Forward Operating Bases (FOBs), Tactical Operations Centers (TOC) and Base Stations.

Technical Overview

This cutting edge system consists of 4 hand held radio pockets (MRC-UVA) capable of housing, charging and powering a myriad of currently fielded and developmental Tactical Multiband, MANET, ROVER and ISR radios. It will supply 20W (A-320V3) of amplification to 30-512MHz radios. The integrated C-REACH (R) system utilizes WAVE to provide radio interoperability, programming, and Radio over IP (RoIP) compatibility through the use of embedded PCs, a Tablet interface and Radio Side Connectors and will support the dissemination of radio channels, ROVER or other ISR system data and video to local friendly forces via the MANET or other user defined bearer.

Additional flexibility supported by the MC4 allows the user to import Link-16 data from a terminal such as the ViaSat STT (Small Tactical Terminal), MOJO, or similar. The system houses 4x removable Quad 2GHz, 8GB RAM, 128GB SSD Credit Card Sized PCs utilizing a LINUX or Windows® based Operating System. Data storage is provided via 2x removable 2.5" SATA III Solid State Drives with 1TB Capacity, An integrated DC power supply supports Military Vehicle Power Systems with an optional accessory to support AC power (not integrated into the system). The MRC-MC4 is flexible in configuration to allow use in a variety of vehicles, a 19" Rack, or transit case.

Features & Capabilities

- Radio Agnostic
- Bearer Agnostic
- Waveform Agnostic
- Provides Global Beyond Line of Sight Communications (BLOS)
- Charging and Power support for Currently fielded and developmental Handheld Radios
- Ability to utilize handheld radios with power amplifiers to expand the current range of such radios to 2 or 3 times their average range.
- Up to 4 Radio Channel Gateway
- Dual video Gateway
- Simultaneous Voice and Data
- Rapidly Deployable
- Radio Interoperability between disparate radio channels / types / waveforms through the use of WAVE™
- Ability to pass streaming video via a user defined bearer to dislocated / dismounted soldiers
- Ability to pass Link-16 and ISR data to dislocated / dismounted soldiers
- Software flexibility to support a variety of User supplied programs
- Capable of subsystem level depot repair / replacement / upgrade with support of the OEM
- Flexible and adaptable to a variety of vehicle fitments, transit case architectures, and fixed site configurations without subsystem component redesign (excluding cabling)

Technical Specifications

• Supported Waveforms

- SRW, ANW2*, EPLRS, ASCM, SINGGARS, HAVEQUICK, DAMA, and IW

• Supported Software

- WAVE™
- TRAX™, FalconView™, Ringtail, RAPTOR-x (Not included)
- Other user defined software (LINUX, Windows 7, 8, & Server)

• Included Equipment

- 4x BioDigitalPC's™
- 4x MRC-UVA - Universal Vehicle Adapter
- 4x A-320V3 20W Power Amplifiers
- 10-36VDC power supply
- C-Reach (R) Module
 - Firewall / Router
 - 4x Quad 2GHZ, 8GB RAM, 128GB SSD Credit Card Sized PCs
 - 2x 2.5" SATA III Solid State Drives with 1 TB Capacity, 550MB/s Sequential read speed and 520MB/s Sequential Write Speed
 - IP Video Encoder

• Ports

- Amplifiers
 - Radio - TNC
 - Antenna - BNC
- Universal Vehicle Adapters
 - Power in (MIL-26482 Series II)
- C-Reach (R) Module
 - 2 x Composite Video Inputs
 - 1 x WAN Ethernet Connector
 - 3 x LAN Ethernet connectors
 - 4 x DP++ video out connector
 - 4 x USB connector
 - 1 x PTZ connector for video encoder
 - 4 x Audio inputs for radio IP conversion. (WAVE)
 - 1x Serial GPS Input
- System
 - MIL-STD

• Switches and Indicators

- Amplifiers
 - Front Panel, Momentary, Push Button
 - Power ON/OFF
 - Power Set (7,10,15, 20W)
 - TX Active
 - RX Active
 - VSWR
 - System / CLR
 - Battery
 - Over Temperature
- Universal Vehicle Adapters
 - Front Panel, Momentary, Push Button
 - Power, Charge Status – NVIS Compatible
- C-Reach (R) Module
 - 1x Power on / off switch (Toggle)
- System
 - MIL-STD

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COMMUNICATIONS SYSTEMS

C4i SYSTEMS

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