

Tactical Data Communications

Universal Communications Integrated Module (UCIM)

Customize Components



BRC ^{1,2}

FRM ^{1,2}

SDSL ^{1,2}

POTS ^{1,2}

KVSM

FES ^{1,2}

IRI ¹

¹ Core UCIM Module

² Aeronix Designed and Developed

BRC	Basic Radio Controller Module
FRM	Firewall Router Module
SDSL	Symmetric Digital Subscriber Line Interface Module
POTS	Plain Ol' Telephone Service Module
KVSM	Keyboard Video Serial Mouse Interface Module
FES	Fast Ethernet Switch Module
IRI	Intercom and Radio Interface Module

Universal Communications Integrated Module (UCIM) provides the integration functions necessary to couple radios and command/control components such as workstations, servers, intercoms and telephones into any military platform.

Via UCIM, a Light Armored Vehicle (LAV) can be set up as a company headquarters command and control. Through the use of UCIM, that vehicle can control up to 24 other LAVs outfitted with the system.

Aeronix is a key technical and managerial contributor in the end-to-end development and successful demonstration of the UCIM system.



UCIM
Rack Mounted Components
Installed in Standard Rack
for Easy Deployment



The UCIM system enables multiple operator access to and control of all communications, RF, computers, C2 applications, sensors and gateway assets in the system. UCIM configured platforms have the advantage of being open standards based, providing interoperability with existing systems including legacy radios and emerging JTRS radio systems

Aeronix is a significant contributor to the net-centric system architecture design. Aeronix designed and developed 5 of the 6 core modules in the UCIM system including the Basic Remote Controller (BRC) module. As part of module development, Aeronix successfully managed milestones and costs in the development

of all hardware, software, and OS porting activities required for the Aeronix modules.

Aeronix also contributes as one of the primary contractors for system integration. This included the extremely successful completion of two major system demonstrations. The first of these, the Limited Assessment for LAV occurred at Quantico in July 2004. The second of these, the Limited User Evaluation (LUE) occurred at the Marine Corps Air Station New River.

During the LUE, the UCIM was successfully demonstrated on three platforms, including the LAV, the HMMWV (High Mobility Multi-Wheeled Vehicle), and the UH1 Huey helicopter.

UCIM SPECIFICATIONS	
Module Complement	Pick and Choose as Required by the Application
Power	12 to 36 VDC Vehicle or Aircraft
Environment	-40°C to 70°C Convection Cooled Submersible to 3 ft.
	Vibration/Shock Ground Mobile Airborne
Mounting	Standard Rack Mount Provisions



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