

Multi-Access C4 Hub (MAC4H)



Front Perspective View



Rear Perspective View

Mission-ready C4 at the edge

Overview

The Multi-Access C4 Hub (MAC4H) is the next-generation Command & Control, Communications and Computing platform designed in alignment with Modular Open System Architecture (MOSA).

It seamlessly enables mission-critical capabilities such as Battlefield Management Systems, Unified Communications Management and Multi-Modal Communications Systems across diverse communications networks.

Built on OpenVPX standards for high-performance, rugged operations, MAC4H enables secure, resilient connectivity and real-time data processing at the edge. Its modular and scalable architecture allows flexible integration of computing, networking, storage, communications, and cyber-security modules.

Designed for future battlefields, MAC4H empowers operators with integrated, resilient capabilities that enhance situational awareness, accelerate decision-making, and ensure mission continuity in complex operational environments.

Key Features

- **Modular, Scalable and Configurable:** Highly configurable to suit diverse mission-critical profiles and needs.
- **Seamless interoperability:** Highly distributed and supports seamless interoperability of large-scale Manned-Unmanned Teaming, and Networked Combat Systems
- **Multi-Modal Communications:** Provides and manages multiple connectivity communications networks for uninterrupted operations.
- **Technical Specification and Qualification Compliances** (MIL-STD-810E/G, MIL-STD-461G, MIL-STD-1275E)

Key Application

- Para-military & defence

Module Capabilities (3U VPX MODULES)

Multi-Processor Module (MPM)	Multi-core processor/s supports any combat software applications such as Command and Control software or any other customer furnished applications. *Software applications are not included in the Multi-Processor Module.
Ethernet Switch Module (ESM)	Managed L2/L3 ethernet switch that enables connected devices to communicate in the Local Area Network (LAN)
Solid-State Module (SSM)	Extended storage drive for Multi-Processor Modules.
Video Processing Module (VPM)	Graphic Processing Unit (GPU) module that enables real-time video processing and AI analytics applications.
Satellite Communications (SatCom) Module	The Satcom Module comes with a modem (corresponding to SatCom service provider) to provide beyond-line-of-sight communications via satellite links.
Unified Communications Manager Module	Manages the multi-modal communications infrastructure connected to the Local Area Network and enables voice, video, messaging and collaboration tools.
Cyber-Security Modules	Monitors network activity, detects cyber threats, and supports mitigation actions.
Power Supply Module (PSM)	VPX compliant power supply module designed with a wide input voltage range and compliance for vehicle-mounted operations.

Technical Specifications

Dimensions	530mm (L) x 290mm (W) x 290mm (H) Space envelope including air gap, connectors and mounting interface
Weight	Approx. 26KG
Power	18V~32V DC-IN (MIL-STD-1275 Rev E)
Power Consumption	480W
Operating Temperature	-20 to +55 Degree Celsius
Product Qualifications and Tests	MIL-STD 810, MIL-STD 461

- The information and data provided are the typical performance and specifications of the equipment described. However, please note that individual items are subject to change without prior notice.*