

Photo courtesy of  
General Dynamics  
Land Systems Inc.

Fact Sheet

# MPMC-9341

Multi-Platform Mission

Computer 4-slot 3U OpenVPX™  
System

- ◆ Form Factor
  - 3U VPX
  - Four system slots
- ◆ Mechanical
  - Dimensions: 12.5" x 5.8" x 8.3"
  - Volume: 602in<sup>3</sup>
  - Weight: 25 lbs (fully populated)
- ◆ Power Supply
  - 28 VDC input
  - MIL-STD-704E
- ◆ Backplane Fabric
  - PCIe between system slots
- ◆ Environmental
  - Designed to meet MIL-STD-810
- ◆ EMI
  - Designed to meet MIL-STD-461
- ◆ Power
  - Designed to meet MIL-STD-710
- ◆ Optional Interfaces
  - (4) Gigabit Ethernet
  - (4) RS-232 Serial
  - (4) RS-422 Serial
  - (4) USB 2.0
  - (4) VGA
  - (4) SATA
  - (8) Audio
  - And more...

The Curtiss-Wright Controls Embedded Computing Multi-Platform Mission Computer 9341 (MPMC-9341) is a leading edge, flexible and rugged processing system. The MPMC-9341 can be readily configured to meet the needs of any military or aerospace requirement, from benign laboratory to harsh deployed ground vehicle environments.



The MPMC-9341 uses advanced packaging techniques to provide the processing power of up to four single board computers (SBCs) in a rugged enclosure that measures a compact 600 cubic inches, yet is able to operate and survive external air temperatures of 55°C using only natural convection. This enables system designers to implement and deploy a highly capable processing system without the need for fans, coldplates, vehicle supplied air, liquid or other supplied resources.



Learn More

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# MPMC-934x

## System Overview

The MPMC-9341 is a rugged computing system designed to fill multiple roles in air and land vehicles. It is a packaged COTS solution that can greatly reduce up-front development costs. Through achieving economies of scale in production, this system can reduce recurring costs while meeting the I/O, performance and environmental requirements of the program.

The MPMC-9341 is a 4-slot 3U VPX system that supports up to four SBCs or a mix of SBCs and I/O modules (or mezzanine carrier cards), depending on the processing or I/O requirements of the program. The enclosure is a rugged natural convection-cooled chassis, designed for reliable operation in harsh environments in accordance with the MIL-STD-810 standards.

Figure 1: MPMC-9341 Functional Block Diagram

