

# MPMC-9610-0001

## Multi-Platform Mission Computer Single-slot 6U VME System

### Form Factor

- ◆ 6U VME backplane

### Mechanical

- ◆ Cold plate cooling
- ◆ Volume optimized
- ◆ 4" x 11.5" x 11"
- ◆ 14.5 lbs (fully populated)

### Standard Configuration

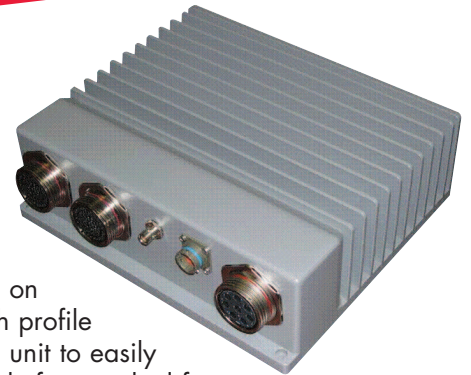
- ◆ (1) DMV-183 SBC
  - Dual Freescale™ 7448
- ◆ (2) DPMC-704 graphics

### Power Supply

- ◆ 28 VDC input
- ◆ MIL-STD-704 compliant

Table 1: Max Power

System Component	Power	Qty	Total
DMV-183	39 W	1	39 W
DPMC-704	10 W	1	10 W
Power Supply	8 W	1	8 W
<b>Total Power Required</b>			<b>57 W</b>



Packaged in an ultra compact chassis, the MPMC-9610-0001 is the perfect solution to modularly expand capabilities on any system. The slim three inch profile of the MPMC-9610 allows the unit to easily slide into available nooks on platforms, ideal for space constrained applications such as UAVs.

The MPMC-9610-0001 is a ruggedized natural convection cooled system qualified for reliable operation in harsh environments. This enables system designers to implement and deploy a highly capable processing system without placing demands on the vehicle such as fans, cold plates, air or liquid.

### Learn More

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## Standard Configuration

The MPMC-9610-0001 is equipped with an integrated 28 VDC power supply unit, one DMV-183 SBC, and two DPMC-704 Graphics PMCs.

Figure 1: MPMC-9610-0001 Block Diagram

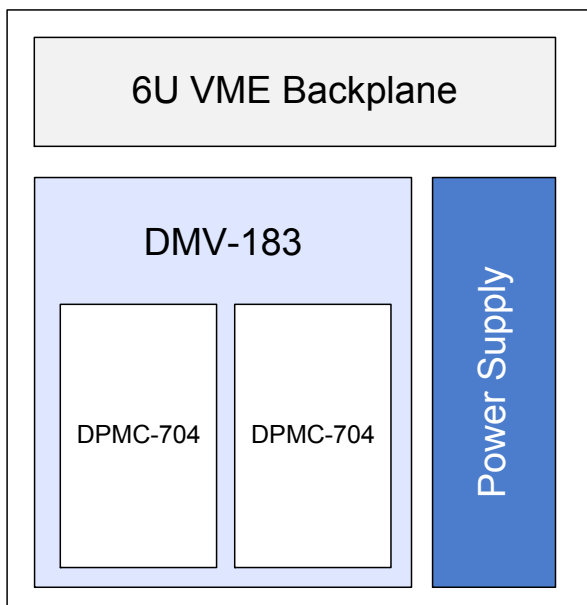


Table 2: Verified System Interfaces

Tested Interface	Qty
Gigabit Ethernet	1
10/100 Ethernet	1
USB	1
RS-232	4
RS-422	2
LVTTL I/O	14
VGA (RGB/Composite) Out	2
TMDS (DVI) Out	2

## Environmental Qualification

The MPMC-9610-0001 is designed to meet the harsh environments of many military and aerospace computing applications. Table 3 illustrates the environmental qualification standards the MPMC-9610-0001 was designed to meet.

Table 3: Environmental Specifications

Environmental Condition	Testing Compliance
Power Input	MIL-STD-704F & MIL-HDBK-704-8: LDC102, LDC103, LDC104, LDC302, LDC602, RE102
EMI/EMC	MIL-STD-461F
Shock	MIL-STD-810F, 516.5
Vibration	MIL-STD-810F, 514.5
Salt Fog	MIL-STD-810F, 509.4
Temperature Altitude	MIL-STD-810F, 520.2
Radiated Emissions	MIL-STD-461: CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103

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