



MPMC-9310-0002

Multi-Platform Mission Computer

Single-slot 3U cPCI System

Form Factor

- ◆ 3U CompactPCI (cPCI) backplane

Mechanical

- ◆ Cold plate cooling
- ◆ Volume optimized
- ◆ 3.71" x 4.89" x 7.80"
- ◆ <5 lbs (fully populated)

Standard Configuration

- ◆ (1) DCP-124P SBC
 - PowerPC™ 7448
- ◆ (1) DPMC-601
 - MIL-STD-1553
- ◆ (1) DPMC-C655 (Orion)
 - RS-170

Power Supply

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

Table 1: Max Power

System Component	Power	Qty	Total
DCP-124P	27 W	1	27 W
DPMC-601	7 W	1	7 W
DPMC-C655	15 W	1	15 W
Power Supply	8 W	1	8 W
Total Power Required			57 W



The MPMC-9310-0002 is the smallest member of the Multi-Platform Mission Computer family, weighing less than 5 pounds. Packaged in an ultra compact 3U form factor and equipped with reliable PowerPC™

processing architecture, the MPMC-9310-0002 has many of the elements required of modern mission computers (see Table 3).

The slim profile of the MPMC-9310-0002 allows the unit to fit easily into available nooks on any platform making it ideal for space constrained applications such as UAVs. Further, the MPMC-9310-0002 is a ruggedized cold-plate cooled system qualified for reliable operation in harsh environments (see Table 2).

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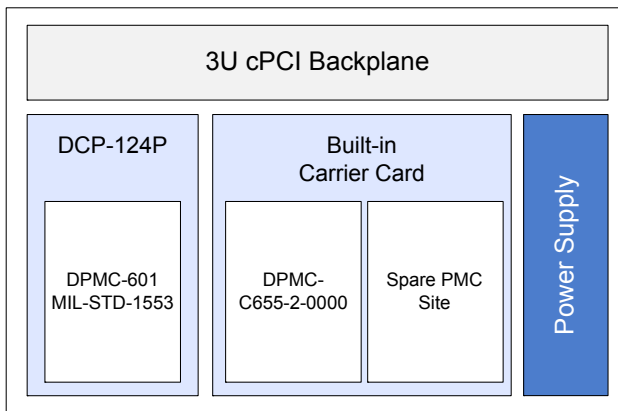
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Standard Configuration

The MPMC-9310-0002 is equipped with an integrated 28 VDC power supply unit, one DCP-124P SBC, one DPMC-601 MIL-STD-1553 module, and one DPMC-655 Graphics PMC.

Figure 1: MPMC-9310-0002 Block Diagram



Operating System

The MPMC-9310-0002 has been verified to run VxWorks®.

Environmental Qualification

The MPMC-9310-0002 is designed to meet the harsh environments of many military and aerospace computing applications. Table 2 illustrates the environmental qualification standards the MPMC-9310-0002 has been designed to meet or exceed.

Table 2: 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

Table 3: Verified System Interfaces

Tested Interface	Qty	Tested Interface	Qty
Gigabit Ethernet	2	NTSC Video In	4
RS-232	2	LVTTTL	4
RS-422	2	28V Discrete	4
MIL-STD-1553	2		

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