



# MPMC-9310-0009

## 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-1201P SBC
  - Intel® Core™2 Duo
- ◆ (1) DPMC-601
  - MIL-STD-1553
- ◆ (1) DPMC-704
  - DVI & VGA Graphics
- ◆ (1) DPMC-650
  - GigE Switch

#### Power Supply

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

Table 1: Max Power

System Component	Power	Qty	Total
DCP-1201P	39 W	1	39 W
DPMC-601	7 W	1	7 W
DPMC-704	10 W	1	10 W
DPMC-650	15 W	1	15 W
Power Supply	10 W	1	10 W
<b>Total Power Required</b>			<b>81 W</b>



The MPMC-9310-0009 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 Intel® Core™2

Duo processing architecture, the MPMC-9310-0009 has many of the elements required of modern mission computers (see Table 3).

The slim profile of the MPMC-9310-0009 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-9310-0009 is a ruggedized cold-plate cooled system qualified for reliable operation in harsh environments (see Table 2).

#### Learn More

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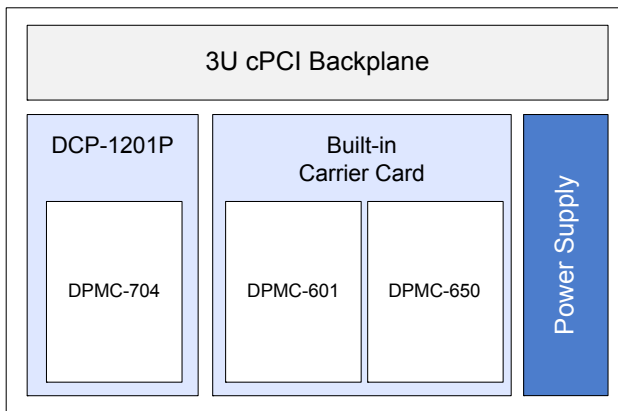
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## Standard Configuration

The MPMC-9310-0009 is equipped with an integrated 28 VDC power supply unit, one DCP-1201P SBC, one DPMC-601 MIL-STD-1553 module, one DPMC-704 Graphics PMC, and one DPMC650 Gigabit Ethernet Switch.

Figure 1: MPMC-9310-0009 Block Diagram



## Operating System

The MPMC-9310-0009 has been verified to run Windows® XP Embedded.

## Environmental Qualification

The MPMC-9310-0009 is designed to meet the harsh environments of many military and aerospace computing applications. Table 2 illustrates the environmental qualification standards the MPMC-9310-0009 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	7	S-Video Output	1
10/100 Ethernet	1	S-Video Input	1
SATA	1	NTSC Output	1
USB	1	NTSC Input	2
RS-232	1	RS-170 Input	1
RS-422	2	LVTTTL	4
MIL-STD-1553	2	28V Discrete	4
VGA Out	1		

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