



# MPMC-9650-0001

## Multi-Platform Mission Computer

### 5-slot 6U VXS System

#### Form Factor

- ◆ 6U VXS backplane

#### Mechanical

- ◆ Liquid Cooling
- ◆ 12.5" x 7.5" x 8.3"
- ◆ 40 lbs (fully populated)

#### Standard Configuration

- ◆ (5) VPF1 FPGA cards
- ◆ (1) FHAS Fibre Channel PMC
- ◆ (1) CSW1 Switch Card

#### Power Supply

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

Table 1: Max Power

System Component	Power	Qty	Total
VPF1	90 W	5	450 W
FHAS	20 W	1	20 W
CSW1	20 W	1	20 W
Power Supply	73 W	1	73 W
<b>Total Power Required</b>			<b>563 W</b>



The MPMC-9650-0001 accommodates the highest power 6U cards in the embedded computing market, within a 5-slot liquid cooled enclosure. The MPMC-9650-0001 is backed by unprecedented FPGA processing power and the flexibility to exactly meet the needs of deployable systems. It's designed to meet the harsh environments of many military computing applications. Circuit cards installed in the system enclosure are isolated from external environmental conditions such as humidity, dust and sand.

#### Learn More

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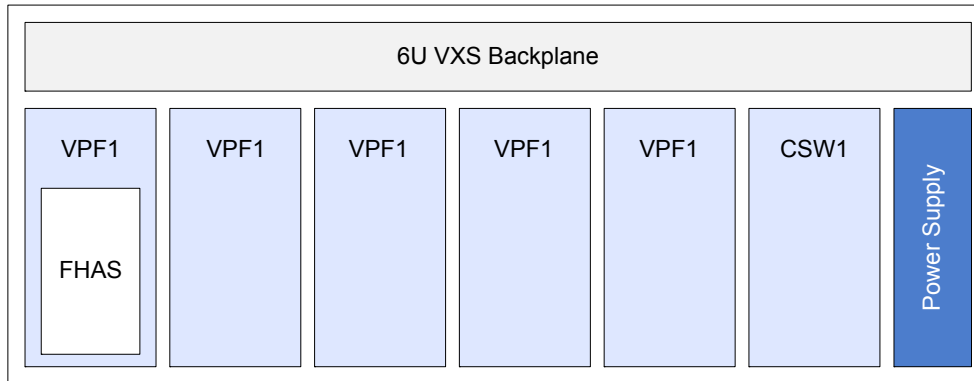
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## Standard Configuration

The MPMC-9650-0001 is equipped with an integrated 28 VDC power supply unit, five VPF1 FPGA cards, one FHAS Fibre Channel PMC, and one CSW1 Switch Card.

Figure 1: MPMC-9650-0001 Block Diagram



## Environmental Qualification

The MPMC-9650-0001 is designed to meet the harsh environments of many military and aerospace computing applications. Table 2 illustrates the environmental qualification standards the MPMC-9650-0001 has been designed to meet.

Table 2: Environmental Specifications

Environmental Condition	Testing Compliance
Temperature & Altitude	DO-160F, B1
Humidity	DO-160F, B
Operational Shocks & Crash Safety	DO-160F, B
Vibration	DO-160F, S
Fluid Susceptibility	DO-160F, F
Fungus Susceptibility	DO-160F, F
Magnetic Effect	DO-160F, A
Power Input	DO-160F, Z
Voltage Spike	DO-160F, A
Audio Freq Susceptibility	DO-160F, Z
Emissions	DO-160F, M
RF Susceptibility	DO-160F, Y
Lightening Strike	DO-160F, A3 E3
ESD	DO-160F, A

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