



MPMC-9675

Multi-Platform Mission Computer
7-slot 6U 1 ATR

Non-ITAR Solution

- ◆ Part of a family of solutions not restricted by ITAR

Form Factor

- ◆ 1 ATR
- ◆ 6U OpenVPX™/VME/Hybrid backplane
- ◆ Volume optimized – single-slot chassis
 - 287 (w) x 211 (h) x 420 (d) mm

Low Weight

- ◆ Under 20 kg fully populated

Power Supply

- ◆ 28 VDC or 115 VAC
- ◆ 600 W at 55 °C
- ◆ 310 W at 71 °C

Subsystem Solutions

- ◆ Technology refresh – easy retrofit
- ◆ Signal processing
- ◆ Video and image processing
- ◆ And more...

The MPMC-9675 is one of the larger members of the Multi-Platform Mission Computer family.

Packaged in an 1 ATR form factor, the MPMC-9675 is a rugged computer designed to fill multiple roles in air and land vehicles.

The MPMC-9675 is a Packaged COTS (PCOTS) solution that can greatly reduce up-front development costs. Economies of scale in production reduce recurring costs, while meeting the I/O, performance and environmental requirements of the system.

The MPMC-9675 achieves these challenging goals through high-quality engineering and design for the future. The MPMC-9675 is a modular system with multiple options for VME, VPX, VXS or hybrid backplanes and front panel connector interfaces. The payload cards can be configured with a wide variety of interface options available onboard, or through the use of PMC and XMC mezzanines targeted at military applications. In addition the PSU design is modular, supporting DC and AC inputs.

The MPMC-967x is a 7-slot 6U system that supports VME, VPX or VXS form factors. It allows up to seven single board computers (SBCs) or PMC carrier cards, 12 X/PMC modules (depending on chosen SBC) and a PSU to be housed in a forced air-cooled chassis.

The MPMC-9675 can be configured to support both PowerPC® and Intel® Core™2 Duo-based SBCs as well as FPGA based and hybrid processing solutions



Learn More

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Cooling Technology

The MPMC-9675 features forced air cooling technology utilizing an integral rugged fan. The payload cards are sealed within the system. Heat is conducted from the cards through the side walls of the enclosure and dissipated in the airflow by the cooling fins on the side of the enclosure. The fan draws air from the front of the system, passes it over the cooling fins and exhausts it at the rear of the system.

To ensure the highest levels of performance, the MPMC-9675 chassis has been designed to meet or surpass MIL-STD-810 Qualifications for Military Equipment and DO-160F Environmental Conditions for Airborne Equipment.

Circuit cards installed in the sealed compact chassis are completely isolated from external environmental conditions such as humidity, dust and sand.

Curtiss-Wright Controls Embedded Computing

Whether the intent is to maximize COTS content or leverage an existing custom solution, Curtiss-Wright Controls Embedded Computing is your embedded systems partner. Take advantage of our decades of experience in assembling generic platforms, upon which you can build your applications. Or leverage specific system solutions that focus on addressing full compliance to platform/program requirements. Either way, we have the products, open standard technologies and system platforms to keep your program ahead of schedule and on budget. Your success is the standard upon which we base our performance.

Figure 1: MPMC-9675 Architecture

