



# MPMC-9610

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

### Form Factor

- ◆ 3U backplane

### Mechanical

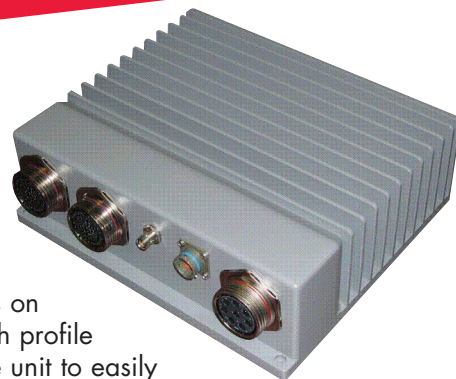
- ◆ Volume optimized - Single-slot chassis
  - 3.9" x 9.6" x 11.48"

### Power Supply

- ◆ 28 VDC input at up to 60 W

### Subsystem Solutions

- ◆ Technology refresh – easy retrofit
- ◆ Ethernet switch
- ◆ General processing
- ◆ Video and image processing
- ◆ And more...



Packaged in an ultra compact chassis, the MPMC-9610 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 making the MPMC-9610 ideal for space constrained applications such as UAVs.

The MPMC-9610 is enclosed in a rugged chassis designed to withstand the harsh environments of military and aerospace applications; this single-slot chassis is designed to operate reliability in a multitude of conditions including extreme temperatures, shock, vibration, EMI, input power, and many more.

Optimal system cooling is ensured via thermal transfer between card edges of its conduction-cooled 6U card and the side walls of the system enclosure. EMI filters and gaskets are also employed for system security and increased reliability.

The MPMC-9610 can be configured with a variety of boards from Curtiss-Wright Controls Embedded Computing's embedded computing library depending on your system requirements; the MPMC-9610 is a perfect system solution whether you need general processing, Ethernet switching, video processing, and more.

### Learn More

Sales Info: [sales.cwcmbedded.com](mailto:sales.cwcmbedded.com)

Sales Email: [sales@cwcmbedded.com](mailto:sales@cwcmbedded.com)

**ABOVE & BEYOND**

**CURTISS  
WRIGHT** Controls  
Embedded Computing  
[cwcmbedded.com](http://cwcmbedded.com)



## Potential Configurations

One of the strengths of the MPMC-9610 is its flexibility. Although the MPMC-9610 is small, its open architecture provides unmatched versatility allowing the system to be configured with numerous feature combinations to meet specific program requirements. Essentially, the MPMC-610 can accommodate one 6U card and support up to two PMC cards (two PMC hosted by the processor card). Below are two potential system configurations for the MPMC-9610, one as a Gigabit Ethernet module and the other as a high-performance processing module:

### Gigabit Ethernet Module:

- ◆ DMV-682 Gigabit Ethernet Module
  - 24x 1 GbE (10/100/1000) ports
  - 2x 10 GbE (10Gbps) XAUI ports
  - 4x Fiber optic ports

### General Processing Module:

- ◆ Processor
  - DMV-1901 Intel® Core™2 Duo SBC
  - DMV-183 PowerPC™ SBC
- ◆ Additional I/O
  - DPMC-704 Graphics PMC
  - DPMC-ARINC ARINC 429 PMC
  - DPMC-1553 MIL-STD-1553 PMC

## Custom Variations

The MPMC-9610 can be ordered with any of the standard features listed above, or the MPMC-9610 can also be ordered as a modified commercial off the shelf (MCOTS). As an MCOTS product, the MPMC-9610 can be configured with a modified front panel connector set, modified backplane wiring or a modified card set so it will fit your exact needs.

Contact your local sales representative for more information.

## Curtiss-Wright Controls Embedded Computing

Whether the intent is to maximize COTS content or leverage an existing custom solution, CWCEC 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: System Architecture

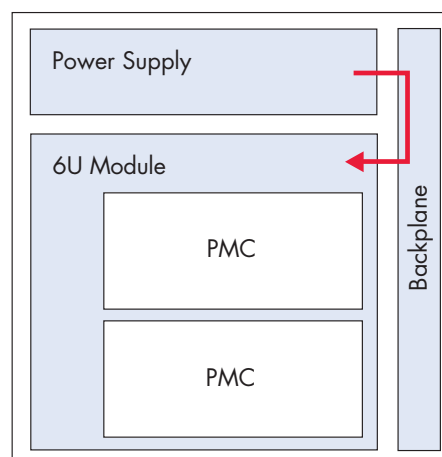


Table 1: Curtiss-Wright has a fully developed variant of the MPMC-9610 system that is currently deployed and available for ordering:

Developed System	Processing	System I/O	Max Power	Size	Weight
MPMC-9610-0001	(1) PPC DMV-183	(1) GbE (1) 10/100 Ethernet (4) RS-232 (2) RS-422 (14) LVTTTL (2) VGA Out (2) TMDS Out	57 W	4" x 11.5" x 11"	14.5 lbs