



# MPMC-9020-0001

## Multi-Platform Mission Computer

### Dual Mezzanine System

#### Form Factor

- ◆ Two mezzanines

#### Mechanical

- ◆ Natural convection cooling
- ◆ Volume optimized
- ◆ 2.6" x 10.5" x 5.5"
- ◆ <3 lbs (fully populated)

#### Standard Configuration

- ◆ (1) XF05F FPGA w/fiber optic
  - Xilinx® Virtex®-5

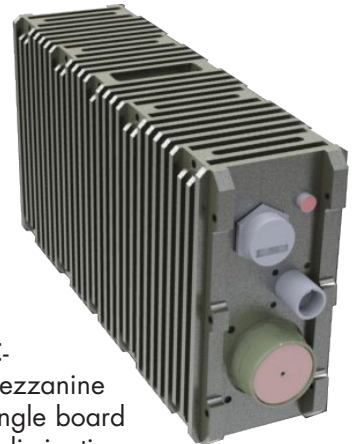
#### Power Supply

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

Table 1: Max Power

System Component	Power	Qty	Total
XF05F	25 W	1	25 W
Power Supply	4 W	1	4 W
<b>Total Power Required</b>			<b>29 W</b>

The Curtiss-Wright Controls Embedded Computing MPMC-9020-0001 is a compact, lightweight yet rugged subsystem designed to operate in harsh environments. Equipped with a built-in controller and power supply, the MPMC-9020-0001 supports two PMC/XMC mezzanine cards without requiring an additional single board computer (SBC) to drive the system. By eliminating the need for a 3U controller module, the MPMC-9020-0001 offers modular functionality to platforms where size, weight, power and cost considerations are paramount.



#### Learn More

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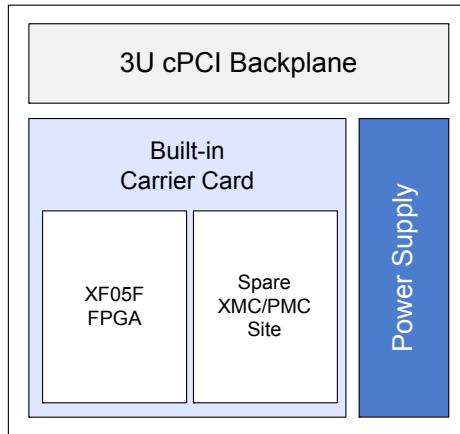
**ABOVE & BEYOND**



## Standard Configuration

The MPMC-9020-0001 is equipped with an integrated 28 VDC power supply unit, and one XF05F Fiber optic module equipped with a Xilinx Virtex-5 FPGA.

Figure 1: MPMC-9020-0001 Block Diagram



## Environmental Qualification

The MPMC-9020-0001 is designed to meet the harsh environments of many military and aerospace computing applications. Table 2 illustrates the environmental qualification standards the MPMC-9020-0001 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

## Curtiss-Wright Controls Embedded Computing

Whether the intent is to maximize COTS content or leverage an existing custom solution, Curtiss-Wright is your Embedded Systems partner. Take advantage of 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.