

M4U | 4U SHORT CHASSIS COMPUTER

4U COMPUTER

The M4US high-performance computing platform delivers rugged durability in an ultra-dense short 4U rackmount form factor. The M4US is built using industry standard COTS componentry and can be customized to meet the performance needs of each and every customer.

Featuring support for standard ATX size motherboards and the highest performing CPUs in both single and dual CPU configurations, the M4U is capable of mounting up to 4x removeable 2.5" drives, 2x internal 2.5" storage drives and an array of PCI and/or PCI Express expansion cards with chassis that is only 14" deep.



Utilizing our proprietary SysCool® thermal management system and built to the highest of MIL-grade standards, the M4U is designed to meet modern high-performance computing demands while delivering consistent and reliable performance in the harshest of rackmount environments. Additionally, this is backed by our standard 5-year warranty, revision control and configuration management to ensure that current and future hardware remain supported throughout the life of any program it may be deployed in.

DIMENSIONS	19" X 7" X 14" (482.6mm X 177.8mm X 355.6mm)
WEIGHT	Varies with configuration
CONSTRUCTION	Front Panel: 0.250" milled 5052-H32 aircraft-grade aluminum Enclosure Body: 0.062" 5052-H32 aircraft-grade aluminum Rear Slot Panel: 16 gauge CRS, zinc plated with 10-32 grounding lug
POWDERCOATING	Black per MIL-PRF-24712, Type IV, Class 3, Cardinal C214-BK110 polyester semi-gloss, fine texture
PLATING	Chem-Film per MIL-C-5541F, Class 1A

Who We Are

CP Technologies, a business unit of CP North America, designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.

Using COTS components, CP Technologies provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP Technologies is an ITAR Registered and ISO 9001:2015 Certified business that has been operating for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

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TECH SPECS

COMPUTER SPECIFICATIONS

CPU OPTIONS	Single or Dual Intel Core or Xeon	POWER SUPPLY	Up to 1100W DC PSU
MEMORY CAPACITY	ECC or Non-ECC Modules Varies by configuration	STORAGE	(4x) 2.5" Removeable Drive Bays (2x) 2.5" Internal Drive Bays
RAID OPTION	JBOD, RAID 0, 1, 5	EXPANSION	(7x) Full Height Expansion Card Slots
MOTHERBOARD	Up to ATX		
LAN	Varies by configuration		
SYSTEM COOLING	(2x) 92mm, 60 CFM 100K hour MTBF Proprietary SysCool™ intelligent adaptive fan controller and temperature alarm circuit board		

HARSH ENVIRONMENTS

ALTITUDE	12,000 ft Operational, 40,000 ft Storage MIL-STD-810, Method 500.6
TEMPERATURE	-10 - 60°C Operational, -40 - 70°C Storage MIL-STD-810, Method 501.6 and 502.6
HUMIDITY	5-95%, Non-condensing MIL-STD-810, Method 507.6
BLOWING SAND AND DUST	MIL-STD-810, Method 510.6
TRANSPORT VIBRATION	MIL-STD-810, Method 514.7
BENCH HANDLING SHOCK	MIL-STD-810, Method 516.7 Procedure VI



ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 50,000 sqft and has dedicated areas for manufacturing and engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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