



R4U

RUGGED
RACKMOUNT
4U COMPUTER

The R4U high-performance computing platform delivers rugged durability in a standard 4U rackmount form factor. Like most CP Systems products, the R4U 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 drives and an array of PCI and/or PCI Express expansion cards with chassis configurations ranging from 20" to 26" long.

Utilizing our proprietary SysCool® thermal management system and built to the highest of MIL-grade standards, the R4U 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.

KEY FEATURES

- 4U rackmount form factor
- Support for up to 20 Expansion Card Slots
- SysCool™ intelligent cooling system
- Ruggedized chassis and components



Who We Are

CP Systems designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.

Using COTS components, CP Systems 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 Systems 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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TECHNICAL SPECIFICATIONS

CPU	Intel® Core and single/dual Intel® Xeon options available
MEMORY CAPACITY	Varies by configuration
STORAGE	Varies by configuration, 3x 5.25" drive bays
OPTICAL DRIVE	Slim Slot-Fed Optical
EXPANSION SLOTS	Varies by configuration, up to 20x slots
FRONT PORTS	2x USB ports, optional card reader
SYSTEM COOLING	(2x) 92mm, 60 CFM 100K hour MTBF or (3x) 120mm 150CFM 200K hour MTBF cooling fans Proprietary SysCool™ intelligent adaptive fan controller and temperature alarm circuit board
MOTHERBOARD CAPACITY	Designed for up to EATX-sized motherboard
POWER SUPPLY	Varies by configuration, single and redundant options available
DIMENSIONS	19" X 7" X 20" or 26" (482.6mm X 177.8mm X 508mm or 670.6mm)
WEIGHT	46 lbs (approximate 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

QUESTIONS?

Reach out to us at
CP-Systems.Tech
or call 858.571.4330

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-DTL-901, in addition to FCC, UL, CE, and country specific agency requirements

FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

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

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