

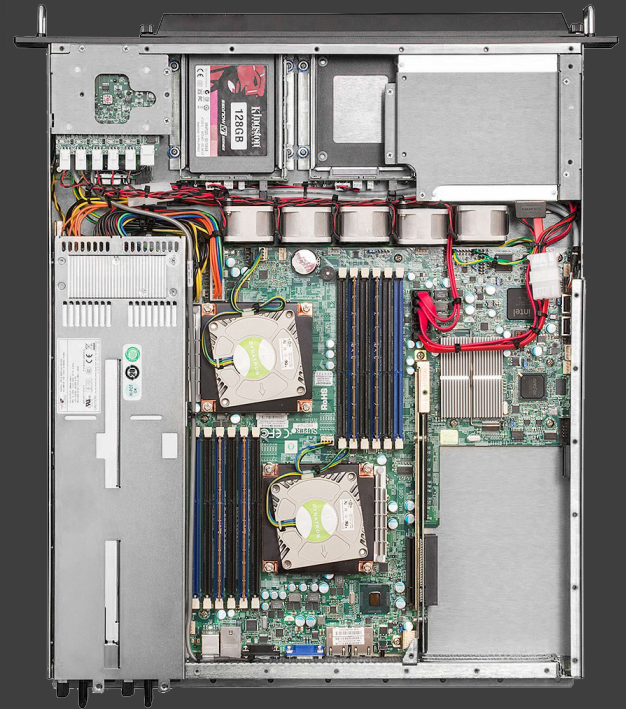


# R1U

RUGGED  
RACKMOUNT  
1U COMPUTER

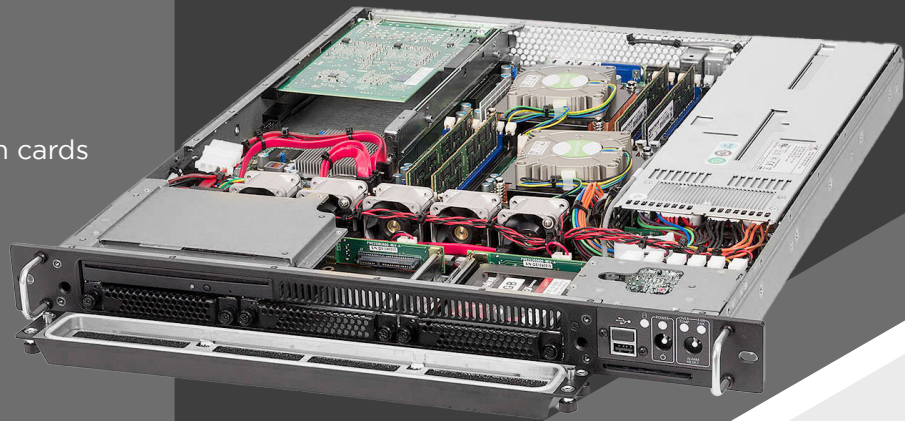
Our R1U-20 computing platform is a high-powered system in a small form factor, appropriate for computationally intense applications. It has exceptional strength and built-in redundancy, is low weight, and contains our proprietary SysCool® thermal management system. SysCool® extends the life of the computing system, reduces power consumption, and lowers overall system noise levels.

The R1U-20 system is ideal for those seeking a rugged rackmount 1U system designed to perform in confined spaces. Uniquely offered with an attached front door with integrated air (or optional EMI) filter serves to protect the drive bays and other components from dust and dirt, as well as shielding that is compliant for MIL-STD-461 EMI.



## KEY FEATURES

- Compact 1U rackmount form factor
- Support for up to 2 PCI-Express expansion cards
- Support for 3 2.5" removable drives
- 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**

**CP Systems**  
10840 Thornmint Road  
San Diego, CA 92127  
CP-Systems.Tech  
858.571.4330



# TECHNICAL SPECIFICATIONS

<b>CPU</b>	Intel® Core and single/dual Intel® Xeon options available
<b>MEMORY CAPACITY</b>	Varies by configuration
<b>STORAGE</b>	Up to 3 shock-isolated 2.5" removable drives
<b>OPTICAL DRIVE</b>	Slim Slot-Fed Optical
<b>EXPANSION SLOTS</b>	Up to 2 full-height cards, 10.0" max length
<b>FRONT USB PORTS</b>	2x USB ports
<b>SYSTEM COOLING</b>	5x 40mm, 18.4 CFM, 100K hour MTBF cooling fans Proprietary SysCool™ intelligent adaptive fan controller and temperature alarm circuit board
<b>MOTHERBOARD CAPACITY</b>	Designed for up to ATX-sized motherboard
<b>POWER SUPPLY</b>	Varies by configuration, single and redundant options available
<b>DIMENSIONS</b>	19" X 1.75" X 20" (482.6mm X 44.5mm X 508mm)
<b>WEIGHT</b>	19.6 lbs (approximate weight. Varies with configuration)
<b>CONSTRUCTION</b>	Front Panel: 0.187" milled 5052-H32 aircraft-grade aluminum Enclosure Body: 0.062" 5052-H32 aircraft-grade aluminum Rear Slot Panel: 18 gauge CRS, zinc plated
<b>POWDERCOATING</b>	Black per MIL-PRF-24712, Type IV, Class 3, Cardinal C214-BK110 polyester semi-gloss, fine texture
<b>PLATING</b>	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