COTS Rugged Industrial Grade 2U Rackmount Server

MILITARY | INDUSTRIAL | COMMERCIAL

R2USE-20

Extremely Rugged High-Capacity Industrial Grade Multi-Drive Bay Server

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

Our R2USE-20 computing platform can be used for many rugged, computationally-intense industrial applications, while taking limited rack space. It has exceptional strength, 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.

Specifications for our standard products can always be customized to fit your unique application requirements.

In-house Engineering Department

Rapid Prototyping

CPU Options

- Single Intel® Core i5® or i7®
- Single Intel® Xeon® E3 Series
- Single or Dual Intel® Xeon® E5 Series
- High-Performace Motherboard

Drive Capacity

- 4(x) 2.5" Drive Bays, Shock-Isolated
- Expandable to (10x) drive bays
- JBOD and High-performance RAID options
- 1(x) Slim Slot-Fed Optical Drive

Applications

- Oil & Gas Exploration
- Factory Automation
- Simulation and Control
- Medical
- Diagnostics
- Data Acquisition
- Robotics
- Communications
- Imaging
- Power Distribution
- UAVs
- Mining
- Railway/Transit

Harsh Environments

Designed to meet or exceed the below specifications.

ALTITUDE
12,000 ft Operational, 40,000 ft Storage

HIGH TEMPERATURE
60°C Operational, 85°C Storage

LOW TEMPERATURE
0°C Operational, -20°C Storage

HUMIDITY
5-95%, Non-condensing

TRANSPORT VIBRATION
2G RMS 5-50Hz

BENCH HANDLING SHOCK
20G @ 11ms

Contact us today!
858.571.4330
combatproven.tech

Chassis Specifications

DIMENSIONS

19” X 3.5” X 20” (482.6mm X 88.9mm X 508mm)

WEIGHT

24 pounds, weight varies by configuration

ENCLOSURE FEATURES

Construction

Front Panel: 0.250” milled 5052-H32 aircraft-grade aluminum
Enclosure Body: 0.062” 5052-H32 aircraft-grade aluminum
Rear Slot Panel: 18 gauge CRS, zinc plated with 10-32 grounding lug

Front Door

Aluminum, formed and welded, with three captive closure fasteners
Milled channel with RF/EMI/environmental gasket
Attenuating EMI honeycomb filter with 45 PPI (washable) air filter rated to UL 94 HF-1

Drive Capacity

4(x) 3.5” shock-isolated drive bays, expandable to (10x) drive bays
1(x) slim slot-fed optical drive (not with 10 drive bay)

Regulatory Conformance

RoHS, REACH, TAA compliant configurations availabe

FRONT USB PORTS

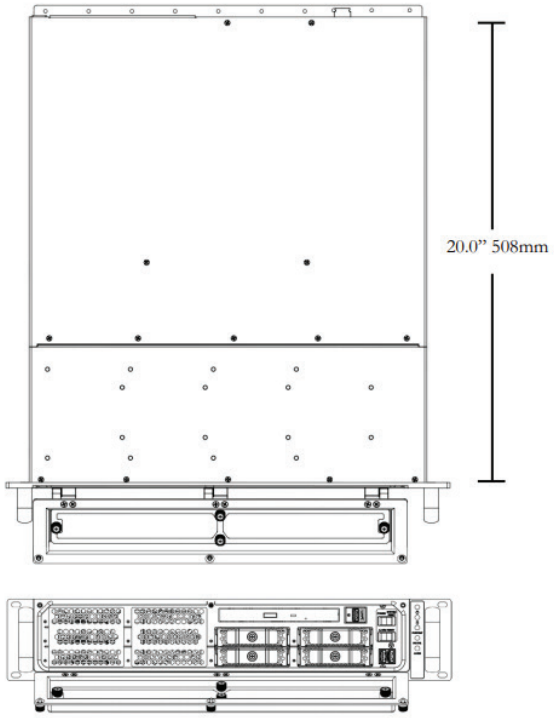
(2x) ports USB 2.0

SYSTEM COOLING

(3x) 80mm, 42 CFM, 100K hour MTBF cooling fans
Proprietary SysCool™ intelligent adaptive fan controller and temperature alarm circuit board

POWER SUPPLY

Redundant 760W 110/220 Volt AC
Other power options available



YOUR CONFIGURATION. ONE PART NUMBER.

- It’s our mission to make your life easier. Our Sales Engineers will help you select the right configuration for your project, making sure the details are analyzed and that the system meets your specifications.
- One part number means easier procurement and less paperwork for you.
- Dedicated Sales and Program Managers.
- Last time buy opportunities for end-of-life components.

Company Website:
combatproven.tech

Product Page:
https://combatproven.tech/rugged-servers/industrial/2u/

Contact us today!
858.571.4330
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