COTS Rugged Military Grade
2U Rackmount Storage Server

Assembled in the USA
ISO 9001:2008 Certified
ITAR Registered

Our M2UDA-20 revision-controlled mil-grade storage server system can be used for many rugged, computationally-intensive military applications, while using 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

For more information visit
www.chassis-plans.com
or call 858.571.4330

CPU Options
• Single Intel® Core i5® or i7®
• Single Intel® Xeon® E3 Series
• Single or Dual Intel® Xeon® E5 Series
• High-Performance Motherboard Options

Drive Capacity
• 12(x) 2.5” Removable Drive Bays
• No Optical Drive
• JBOD and high-performance RAID

Applications
• Airborne Operations
• Land-based Operations
• Seaborne Operations
• Telemetry
• Diagnostics
• Simulation
• Communications
• Imaging
• Persistent Surveillance
• UAVs
• Automation
• Severe Environment Operations

Harsh Environments
Designed to meet or exceed MIL-STD-810G to the below specifications.

ALTITUDE
12,000 ft Operational, 40,000 ft Storage
MIL-STD-810, Method 500.5

HIGH TEMPERATURE
60°C Operational, 85°C Storage
MIL-STD-810, Method 501.5

LOW TEMPERATURE
0°C Operational, -20°C Storage
MIL-STD-810, Method 502.5

HUMIDITY
5-95%, Non-condensing
MIL-STD-810, Method 507.5

TRANSPORT VIBRATION
US Highway Truck and Air Transport
MIL-STD-810, Method 514.6

BENCH HANDLING SHOCK
Procedure VI, 20G @ 11ms
MIL-STD-810, Method 516.6

EMI Compliance
Optional MIL-STD-461G Package
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 EMI/environmental gasket
Built in, removable, washable air filter

**Drive Capacity**
12(s) 2.5” removable drive sleds, shock mounted
No optical drive

**Indicators**
Power on, disk access, fan failure and over temperature indicators

**Switches**
Power, system and alarm reset switches behind front door

**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

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

**Mother Board Capacity**
Designed for ATX-sized motherboard (9.6” X 12”)
7(x) low-profile or 3(x) full-height, half-length plug-in cards

**Power Supply**
Redundant 760W 110/220 Volt AC
Other power options available (28 / 48 / 100VDC)

** Regulatory Conformance**
RoHS
REACH
TAA compliant configurations available

For more information visit www.chassis-plans.com or call 858.571.4330

©2017 Chassis Plans LLC. All Rights Reserved.