

# MMS-2 MASS MEMORY SERVER



The VT Miltope Mass Memory Server-2 (MMS-2) is a system platform designed specifically for rugged applications. The MMS-2 is a small, light, fast, customizable and capable MMS-1 designed to suit any rugged program's data storage and distribution needs. The MMS-2 can provide all of the technologies that today's system's integrators need to be successful. And for VT Miltope, that's all in a day's work.



## MMS-2 Features and Functions:

- Lighter (56%), Smaller (45% Height Decrease) and Faster than legacy MMS-1
- Customized Embedded Operating System
- Intel® 1.5 GHz Dual-Core Core™ i7
- 4 GB 1333 MHz DDR3 RAM
- 9 MIL-STD-38999 Ethernet Ports
- 4 Port UART Controller; 2 RS-485, 2 RS-423
- Debian Linux®
- Mounts in legacy MMS-1 tray
- Isolated Network Capable



## SPECIFICATIONS

### PROCESSOR:

Intel® 1.5 GHz Dual-core Core™ i7

### OPERATING SYSTEM:

Debian Linux®

### RAM:

4 GB 1333 MHz DDR3 RAM

### STORAGE:

160 GB SSD Internal storage, SATA 3 Gb/s, removable compact flash drive, up to three Solid State Drives

### EXTERNAL INTERFACES:

- Nine MIL-ROUND 10/100 BaseT Ethernet ports (all isolated within environmentally sealed MIL-STD-38999 connectors)
- Maintenance supplied ports (Gigabit Ethernet, VGA, USB)
- 4 port UART controller; 2 RS-485, 2 RS-423

### PHYSICAL:

Dimensions 4.8"H x 9"W x 14.8"D; Weight 14.28 lbs.; Lightweight aluminum chassis

### POWER:

60 watts nominal (max capacity of 100 watts)  
100-125 VAC, 380-420Hz, single phase input power per MIL-STD-704F

## ENVIRONMENTALS

### TEMPERATURE:

MIL-STD-810G, Method 501.5/502.5, Procedure I and II  
Operating (normal) 0°C to +55°C  
Operating (extended) -40°C to +60°C  
Short Term (30 min) Up to +71°C  
Storage -57°C to +85°C

### SOLAR RADIATION:

MIL-STD-810G, Method 505.5, Procedure I,  
Diurnal Cycle A1

### EXPLOSIVE ATMOSPHERE:

MIL-STD-810G, Method 511.5, Procedure I

### FUNCTIONAL SHOCK:

MIL-STD-810G, Method 516.6, Procedure I;  
10x 20G, 11ms per figure 516.6-10

### CRASH HAZARD:

MIL-STD-810G, Method 516.6, Procedure V;  
40g, 11ms pulse

### CONTINUOUS VIBRATION:

MIL-STD-810G, Method 514.6, Procedure I;  
CH-47D, AH-6J

### ACCELERATION (CRASH SAFETY):

MIL-STD-810G, Method 513.6, Procedure III

### ALTITUDE:

MIL-STD-810G, Method 500.5, Procedure II  
(Operational): 20,000 feet, Procedure I  
(Non-Operational): 50,000 feet

### HUMIDITY:

MIL-STD-810G, Method 507.5; 10 24-hour aggravated temperature humidity cycles, Max Temps @ 55°C.  
Operational checks after 5th and 10th cycle

### FUNGUS:

MIL-STD-810G, Method 508.6

### RAIN (DRIP):

MIL-STD-810G, Method 506.5, Procedure III;  
(15 min, 280 L/m2/hr)

### SAND/DUST:

MIL-STD-810G, Method 510.5, Procedure I  
(6 hours, 9ms); MIL-STD-810G, Method 510.5,  
Procedure II (90 min, 18ms)

### SALT FOG:

MIL-STD-810G, Method 509.5, ±1% aqueous salt  
atmosphere (2-24 hour wet and 2-24 hour dry)

## EMI/ESD/HEMP

MIL-STD-461F CE101, Figure CE101-4; MIL-STD-461F CE102, Figure CE102-1; MIL-STD-461F CS101, Figure CS101-1; MIL-STD-461F CS114, Figure CS114-1; MIL-STD-461F CS115, Figure CS115-1; MIL-STD-461F CS116, Figure CS116-2; MIL-STD-461F RE101, Figure RE101-1; MIL-STD-461F RE102, Figure RE102-3 ESD DO-160E, Section 125 Indirect Lightning, DO-160E, Section 22; MIL-STD-461F RS101, Figure RS101-2 Aircraft and Space Systems, Helicopters