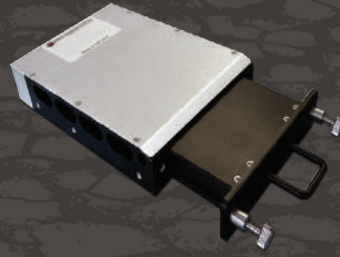# RUGGED
ELECTRONIC PACKAGING
FOR MINING & CONSTRUCTION APPLICATIONS

VEHICLE HEALTH MANAGEMENT

Mesa External, Flat Mount USB Solid State Drive

The Mesa is an external, rugged USB memory device that bolts onto flat surfaces and contains a 2.5" SATA solid state drive.

SECURE DATA ACQUISTION & STORAGE

Mountain Secure Systems delivers:

- Proven expertise in rugged packaging of commercial and modified off-the-shelf electronics
- Tailored and wholly designed solutions to meet customer specifications
- Capability to design and test to any standard for shock, vibration, temperature, submersion, and other environmental stresses
- Affordable customization
- Dedicated engineers and project managers
- Support throughout the entire program life-cycle
- On-site manufacturing and prototyping
- Small company speed, flexibility, responsiveness and support
- Benefits of longstanding military and aerospace experience applied to mining and other industries
- Large company resources, process control and reliability

MOUNTAIN SECURE SYSTEMS
RUGGED & WIRELESS SOLUTIONS
RUGGEDIZED ELECTRONICS TO OUTLAST HARSH ENVIRONMENTS

Mesa External, Flat Mount USB Solid State Drive
To learn more call 888.884.9344.

Physical:	Solid State Drive
Dimensions	0.75"H x 7.25"W x 4.62"D
Weight*	1.1 lbs.

*Depends on SSD selected. For SWAP applications, the unit weight could be reduced.

Specifications:			Solid State Drive
Capacity			Selectable*
Drive Interface			USB 3.0	2.0 or SATA 2
Read Performance			250 MB	Sec SATA
			120 MB	Sec USB 3.0
			33 MB	Sec USB 2.0
Write Performance			200 MB	Sec SATA*
			100 MB	Sec USB 3.0*
			26 MB	Sec USB 2.0
Input Voltage			+9 to +36 Volts
Temperature (°C)	Operating	Commercial	-20 to +75*
		Extended	-40 to +85*
	Non-Operating		-55 to +95*
Shock (Gs)	MIL-STD-810, RTCA	DO-160	Operating	30 @ 11ms
Vibration (Gs)	MIL-STD-810, RTCA	DO-160		16 Grms Random
Humidity			0% to 100%
5% Salt Fog			336 Hours
Sand and Dust	MIL-STD-810, 510.4		Mated Connectors Withstand Effects
Fungus Resistance	MIL-STD-810, 508.5		Inert
Immersion	MIL-STD-810, 512		1 Hour
EMI	ESD	EN55022 Class B EN61000-4-4 A 2kV EN61000-4-5 A 2kV		EN61000-4-6 A 10Vrms EN61000-4-2 A 8kV Air

Customizable Features:

1. Easy bolt-on integration and grounding.

2. USB 3.0/2.0 interface. Other interfaces available upon request.

3. Packaged 2.5" SATA Solid State Drive selectable to meet program requirements

4. Sealed Mini Mil-Circular Connectors

5. +9VDC to +36VDC power input.

6. Environmentally sealed enclosure to protect against rapid decompression, EMI, humidity, dust, salt fog, immersion and condensation

7. Available encryption, secure erase, destructive erase, extended temperature and/or power protection options

*MSS leverages the best data storage technologies available on the commercial market. Our expertise is properly ruggedizing, packaging, and integrating the memory to meet your program requirements. While we have close relationships with many of the OEM manufacturers, we are always open to utilizing your SSD choice or recommending the proper drive for your application. Capacity, MLC/SLC, speed, operating temperature and other performance characteristics may be dependent on drive selection.