



MILTECH™ M512

Rugged Small Size 512 USB3 Flash Drive

The MILTECH M512 is a small, rugged, 512 GB USB 3.0 portable local data storage drive. It is ideal for securely uploading data to or downloading data from:

- Portable computers Navigation devices
- Communication systems
- Defense systems
- Combat vehicles, avionic and shipboard systems

For the highest level of data security and preventing data breaches, the M512 features secure erase via external GPIO, read/write indication via external GPIO, and optional internal battery to support self-powered secure erase operation.

The MILTECH M512 comes with a variety of mechanical enhancements to ensure reliability, usability, and performance in harsh environments.

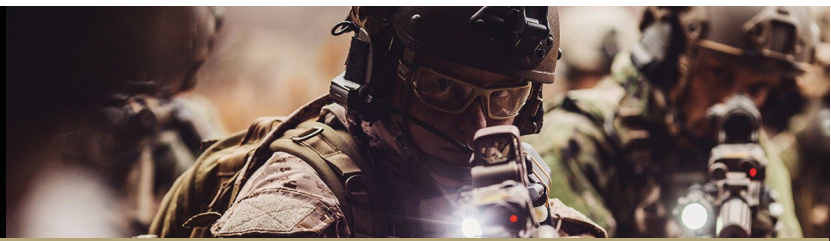
The unit's circular connector supports USB 3.0's high speed signals, with backward compatibility to USB 2.0. Using a dedicated ratchet, the connector is secure and vibration-proof. The pin shell's scoop-proof design prevents pins from being bent or contacts from being electrically shorted during mating. Blind insert capability uses polarity to help guide insertion in places not easily viewed.

Designed to meet MIL-STD-81 OF airborne and ground environmental compliance the MILTECH M512 delivers high reliability and durability. Leveraging best-in-class technology, the MILTECH M512 serves as a robust commercial off-the-shelf (COTS) solution for rugged and secure USB storage.



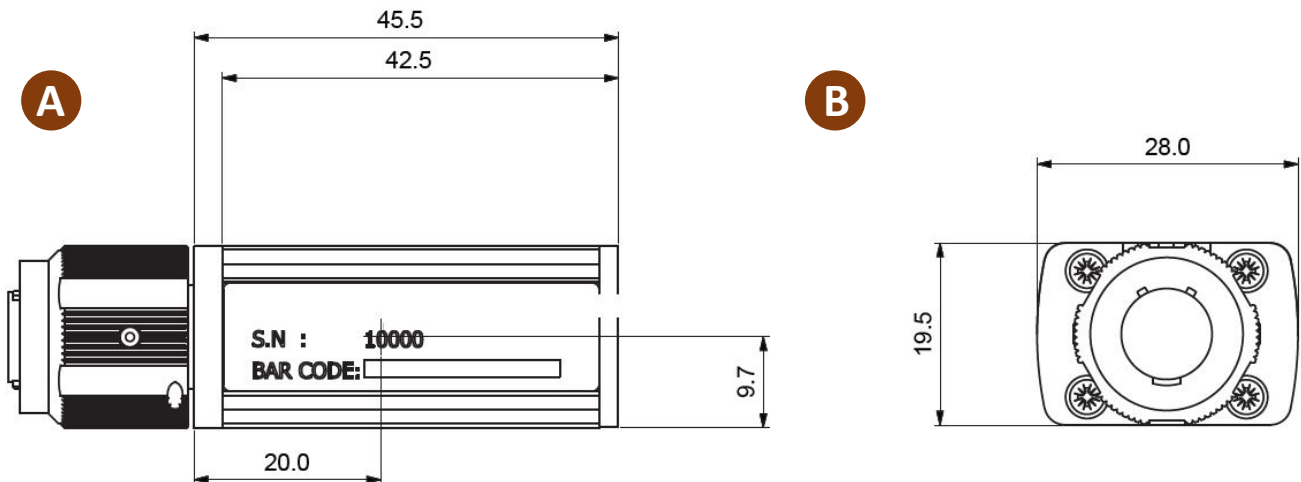
SPECIFICATIONS

FLASH MEMORY:	<ul style="list-style-type: none"> • Double Write and Read speed with Raid-0 • Optional Data Protection with Raid-1 • Status indication via external GPIO • Includes two flash memories • Option for Internal battery to support self powered secure erase
CONNECTORS:	<ul style="list-style-type: none"> • Amphenol circular connector 805 series, 10 pins • Support High Speed differential signals for USB 3.0 • Vibration proof via dedicated ratchet and 3-star thread • Scoop Proof
CASE:	<ul style="list-style-type: none"> • Low profile rugged aluminum • Conductively cooled w/custom internal heat-sinks • Black anodize coating



SPECIFICATIONS

STANDARDS:	<ul style="list-style-type: none"> MILSTD-461E MILSTD-810F GM Support -40°C (Cold Start) and +85°C ambient temperature, no degradation
VOLTAGE OPERATION:	<ul style="list-style-type: none"> USB Power
POWER:	<ul style="list-style-type: none"> Power Consumption: Standby: 0.38W USB2: 0.9W USB3: 1.4W Chassis grounding
ELECTROMAGNETIC:	<ul style="list-style-type: none"> MIL-STD-461 E Electromagnetic compatibility
SHOCK/NIBRATION/HUMIDITY:	<ul style="list-style-type: none"> MILSTD-810F/G/GM: Random vibration (514.5I) Bench Handling (516.6VI) High Temp.(501.5I,II) Low Temp.(502.5I) Humidity (507.5II) Air Pressure (500.5I,II) Blowing Rain (506.5I) Immersion (512.5II) Salt Atmosphere (509.5I) Blowing Dust (510.5I) Loose Cargo Vibration (514.6II) Wind Analysis
PHYSICAL:	<ul style="list-style-type: none"> Dimensions: 65mm (L) x 28mm(W) x 19mm(H), including connectors & hardware Dimensions: 2.57"(L) x 1.102"(W) x .76"(H), including connectors & hardware Weight: 65 gr
COOLING:	<ul style="list-style-type: none"> No Moving Parts. Passive Cooling QoS consistency across stack / ring
OPERATING TEMP:	<ul style="list-style-type: none"> -40°C to +85°C (-40°F to +185°F) - Cold Start-Up
STORAGE TEMP:	<ul style="list-style-type: none"> -45°C to +85°C (-49°F to +185°F)



*All measurements are in millimeters

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-M512-000	Military grade USB 3.0 Flash Drive 512Gb
2-USBAM6464010	USB cable for MILTECH M64/M128/M256/M512