MILTECH™ M128

Rugged Small Size 128G USB3 Flash Drive

PRODUCT DESCRIPTION

The MILTECH M128 is a small, rugged, 128 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 M128 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 M128 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-81OF airborne and ground environmental compliance the MILTECH M128 delivers high reliability and durability. Leveraging best-in-class technology from Techaya, the MILTECH M128 serves as a robust commercial off-the-shelf (COTS) solution for rugged and secure USB storage.

FEATURES

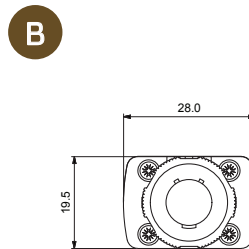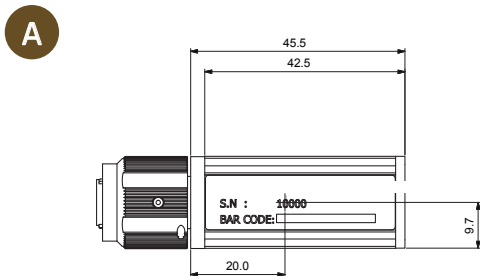| FLASH MEMORY:	• Double Write and Read speed with Raid-0 • Optional Data Protection with Raid-1 • Status indication via external GPIO • Includes two flash memories • Option for Internal battery to support self powered secure erase
CONNECTORS:	• Amphenol circular connector 805 series, 10 pins • Support High Speed differential signals for USB 3.0 • Vibration proof via dedicated ratchet and 3 star thread • Scoop Proof
CASE:	• Low profile rugged aluminum • Conductively cooled w/custom internal heat-sinks • Black anodize coating
STANDARDS:	• MILSTD-461E • MILSTD-810F GM • Support -40C (Cold Start) and +85C ambient temperture, no degredation
VOLTAGE OPERATION:	• USB power

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PRODUCT SPECIFICATIONS

POWER:	• Power Consumption: • Chassis grounding
ELECTROMAGNETIC:	• MIL-STD-461E Electromagnetic compatibility
SHOCK/VIBRATION/HUMIDITY:	• 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 (512.5I) | Salt Atmosphere (509.5I) | Blowing Dust (510.5I) | Loose Cargo Vibration (514.6II) | Wind Analysis
PHYSICAL:	• 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:	• No Moving Parts. Passive Cooling
OPERATING TEMP:	• -40ºC to +85ºC (-40ºF to +185ºF) — Cold Start-Up
STORAGE TEMP:	• -45ºC to +85ºC (-49ºF to +185ºF)

A

B

*All measurements are in millimeters

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-M128-000	• Military grade USB 3.0 Flash Drive 128Gb
2-USBAM6464010	• USB cable for MILTECH M64/M128

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PRODUCT DATASHEET rev. 2

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