



# MILTECH™ M64

Military-grade miniature USB3 storage device (Flash Drive)

## PRODUCT DESCRIPTION

The MILTECH M64 is a small, rugged, 64 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 M64 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 M64 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-810F airborne and ground environmental compliance the MILTECH M64 delivers high reliability and durability. Leveraging best-in-class technology from Techaya, the MILTECH M64 serves as a robust commercial off-the-shelf (COTS) solution for rugged and secure USB storage.

## FEATURES

<b>FLASH MEMORY:</b>	<ul style="list-style-type: none"> <li>• Double Write and Read speed with Raid-0</li> <li>• Data Protection with Raid-1</li> <li>• Secure erase via external GPIO</li> <li>• Status indication via external GPIO</li> <li>• Support up to two memory Flash devices</li> <li>• Option for Internal battery to support self powered secure erase</li> </ul>
<b>CONNECTORS:</b>	<ul style="list-style-type: none"> <li>• Amphenol circular connector 805 series, 10 pins</li> <li>• Support High Speed differential signals for USB 3.0</li> <li>• Vibration proof via dedicated ratchet and 3 star thread</li> <li>• Scoop Proof</li> </ul>
<b>CASE:</b>	<ul style="list-style-type: none"> <li>• Low profile rugged aluminum</li> <li>• Conductively cooled w/custom internal heat-sinks</li> <li>• Black anodize coating</li> </ul>
<b>STANDARDS:</b>	<ul style="list-style-type: none"> <li>• MILSTD-461E</li> <li>• MILSTD-810F GM</li> <li>• Support -40C (Cold Start) and +85C ambient temperature, no degradation</li> </ul>
<b>VOLTAGE OPERATION:</b>	<ul style="list-style-type: none"> <li>• USB power</li> </ul>



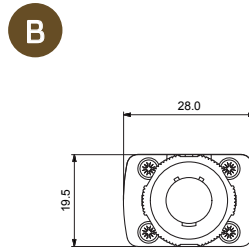
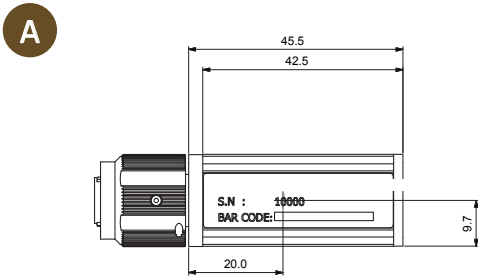


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## PRODUCT SPECIFICATIONS

<b>POWER:</b>	<ul style="list-style-type: none"> <li>Power Consumption:</li> <li>Chassis grounding</li> </ul>
<b>ELECTROMAGNETIC:</b>	<ul style="list-style-type: none"> <li>MIL-STD-461E Electromagnetic compatibility</li> </ul>
<b>SHOCK/VIBRATION/HUMIDITY:</b>	<ul style="list-style-type: none"> <li>MIL-STD-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</li> </ul>
<b>PHYSICAL:</b>	<ul style="list-style-type: none"> <li>Dimensions: 65mm (L) x 28mm(W) x 19mm(H), including connectors &amp; hardware</li> <li>Dimensions: 2.57"(L) x 1.102"(W) x .76"(H), including connectors &amp; hardware</li> <li>Weight: 65 gr</li> </ul>
<b>COOLING:</b>	<ul style="list-style-type: none"> <li>No Moving Parts. Passive Cooling</li> </ul>
<b>OPERATING TEMP:</b>	<ul style="list-style-type: none"> <li>-40°C to +85°C (-40°F to +185°F) – Cold Start-Up</li> </ul>
<b>STORAGE TEMP:</b>	<ul style="list-style-type: none"> <li>-45°C to +85°C (-49°F to +185°F)</li> </ul>



\*All measurements are in millimeters

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-M64-001	<ul style="list-style-type: none"> <li>Military grade USB 3.0 Flash Drive 64Gb</li> </ul>
1-M64-004	<ul style="list-style-type: none"> <li>Military grade USB 3.0 Flash Drive 64Gb with IP67 standard</li> </ul>
2-USBAM6464010	<ul style="list-style-type: none"> <li>USB cable for MILTECH M64</li> </ul>