

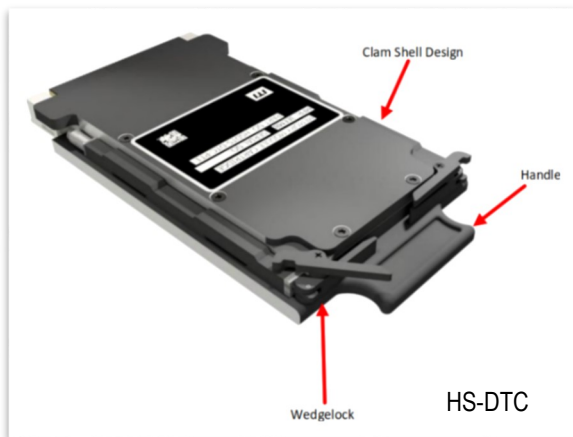


HS-DTC

High Speed Data Transfer Cartridge

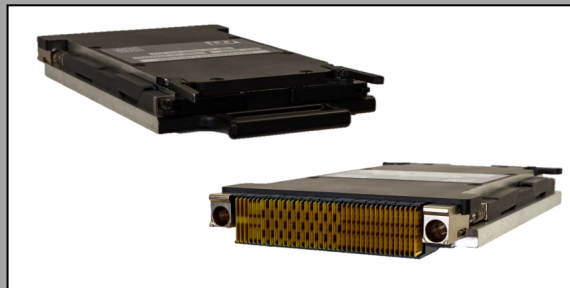
ITI's High Speed Data Transfer Cartridge (HS-DTC) is a top of the line Ruggedized 3U VPX Cartridge that supports storage capacities up to 64TB, all while providing an exceptionally high read/write throughput of 3500MB/s and 3000MB/s respectively. The HS-DTC is designed to operate in some of the harshest conditions in non-pressurized, high altitude environments and offers users the ability to upgrade memory capacity if their use case changes over time.

ITI-HSDTC-001



*Optional 1 to 4 bay High-Speed Cartridge Interface Device (HS-CID) for Loading and Downloading Data

Key Features
1TB to 64TB Storage Capacity
NVME Based Storage for Highest Speed Read/Write Performance Available
PCIe x4 Gen3 Interface
Open VPX Compatible Profile
Configurable to User Application
Optional AES-256 Encryption
Toolless Wedge Locks & Ejectors
Repairable & Upgradable Memory Design



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The HSDTC is utilized to securely read and write large amounts of data at high speeds in the harshest conditions. It serves as a critical component in creating effective and secure data transfer to and from the worlds most advanced aerial vehicles.

Shock, Vibration, Acceleration and Explosive Atmosphere		Environmental	
Operational Shock	Operational Shock - Tested per MIL-STD-810H Method 516.8 Procedure I Non-Operational Shock - Tested Per MIL-STD-810H Method 516.8 Procedure VI	Temperature Per MIL-STD-810H	Operating: -40C to 85C - Tested per Method 501.7 Procedure II (High Temperature) - Tested per Method 502.7 Procedure II (Low Temperature) - Tested per Method 503.7 Procedure I (Temperature Shock) - Tested per Method 520.5 Procedure 1 Option 1 (Combined Environments, Altitude/ Temperature) Non-Operating: -40C to 85C - Tested Per MIL-STD-810H Method 501.7 Procedure I (High Temperature) - Tested Per MIL-STD-810H Method 502.7 Procedure I (Low Temperature)
Vibration	Operational - Tested Per MIL-STD-810H Method 514.8 Procedure I (General Vibration) Non-Operational Shock - Tested Per MIL-STD-810H Method 516.8 Procedure VI	Humidity	95% Non-Condensing - MIL-STD-810 Method 507.6 Procedure II - MIL-STD-202-103, Test Condition A
Acceleration	Operational - Tested per MIL-STD-810H Test Method 513.8 Procedure II (Operational Test) Transportation Acceleration MIL-STD-810H Test Method 513.8 Procedure I (Structural Test)	Altitude Per MIL-STD-810H	Operating: 0 to 65,000 ft - Tested per Method 500.6 Procedure II (Operation) - Tested per Method 501.7 Procedure II (High Temperature) Change in Altitude: 5,000ft/minute - MIL-STD-810H Method 500.6 Procedure III (Rapid Decompression) - MIL-STD-810H Method 520.5 Procedure 1 Option 1 (Combined Environments, Altitude/Temperature)
Explosive Atmosphere	- Tested per Method 511.7 Procedure I (Explosive Atmosphere)	Precipitation	- Tested Per Method 506.6 Procedure I (Rain and Blowing Rain) - Tested Per Method 521.4 (Icing/Freezing Rain)
Interfaces		Fungus	- MIL-HDBK-454 Group I Fungus-inert materials
Interfaces	Hardware Interfaces: - VPX External Connector - SMBus Interface Software Interfaces: - PCIe Gen 4	Mechanical	
		Weight	< 1.5 pounds
		Enclosure	3U VPX Form Factor

Ordering Information

Part Number	Description
ITI-HSDTC	High-Speed Data Transfer Cartridge (HS-DTC)
ITI-HSCID*	High-Speed Cartridge Interface Device (HS-CID) **Optional**
Cage Code	3EEM8

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