



TuffDrive® eUSB – USB 3.1 Gen 1 High Speed SSD

Industrial eUSB Module, 10 Pin Low Profile, pSLC

VTDU42XI016G-V11

Product Brief - Rev. 1.0
See Datasheet for all details



Description

Virtium TuffDrive eUSB SSDs are ideal solutions for server, networking, embedded and industrial applications that require a modest amount of storage and require a widely supported USB 3.1 Gen 1 interface. Typical applications include operating system and file storage, system level diagnostics, or as a backup repository for data in DRAM in the event of a system-level power-down.

Features

Capacity

- 16 GB

pSLC NAND

Performance

- Sequential Read: 150 MB/s
- Sequential Write: 39 MB/s

Voltage Supply: 5V \pm 5% or 3.3V \pm 5%

Power Consumption⁽¹⁾

- Sequential Read: 0.64 W
- Sequential Write: 0.65 W
- Idle: 0.21 W

Temperature Ranges

- Industrial: -40°C to 85°C
- Non-Operating: -40°C to 85°C

Reliability

- Flexible 96-Bit/1K BCH ECC
- MTBF: >5M hours

Endurance

- JESD219A: 145 TBW
- Sequential: 632 TBW

SMART Attribute Reporting

- Monitors device health
- Anticipates and predicts failures

Mechanical Dimensions

- Horizontal Mount, 2.00mm Pin-Pitch Connector
- Length x Width x Height mm (inches)
36.90 (1.553) x 26.60 (1.047) x 6.00 (0.236)

Compliance

- USB 3.1 Gen 1
- FCC, CE, UL, RoHS, WEEE

Environmental (Non-operating)

- Humidity (non-condensing): 5% to 95%
- Shock: 1500G, half-sine wave, 0.5ms duration
- Vibration: 20G, 20 Hz to 2000 Hz

(1) Based on a 5.0V power supply



Electrostatic Discharge (ESD) can damage this device. When handling the device, always wear a grounded wrist strap and use a static dissipative surface.



Any damage to the unit that occurs after its removal from the shipping package and ESD protective bag is the responsibility of the user.