

TuffDrive™



DESCRIPTION:

The Virtium TuffDrive™ eUSB VUS Series is an industrial and commercial temperature rated SATA Flash solution that is designed to replace rotating media in embedded applications requiring long life, small form factor and the ability to withstand shock, vibration as well as high altitude and temperature.

The TuffDrive™ eUSB product series is available in a broad range of densities from 2GB to 16GB and features high reliability with up to 2 million program/ erase cycles guaranteed. The VUS Series is available in both 2.00 and 2.54 connections to suit a variety of embedded and telecommunications applications.

The Virtium TuffDrive™ Difference:

- Onboard ECC Technology provides hardware and software to implement error correction coding which can detect and correct up to 8 bit errors per 512 Byte sector.
- Custom testing to meet customer requirements and resolve issues—power cycling, data corruption, endurance, and ECC Errors.
- Specialize in industrial-grade flash storage solutions for embedded systems, providing B.O.M control and extended product line support.
- Available in both standard and stacked TSOP Flash parameters.

Industrial eUSB VUS Series

Densities: 2GB- 16GB

FEATURES:

Industrial temperature -40° to +85°

Horizontal Mounted 2.54mm and 2.0mm pin pitch connectors

Sustained speeds of 30MB/s read and 15MB/s write.

Reliable Industrial data transfer performance

S.M.A.R.T. command support; Write protection, ECC, static wear leveling

BENEFITS:

Long-term sustainable product lifecycle support—5 years minimum.

CE, FCC and RoHS compliant

B.O.M. Control results in consistent, compatible and reliable product performance.

Consistent supply and advanced product change notification helps to avoid manufacturing interruptions.

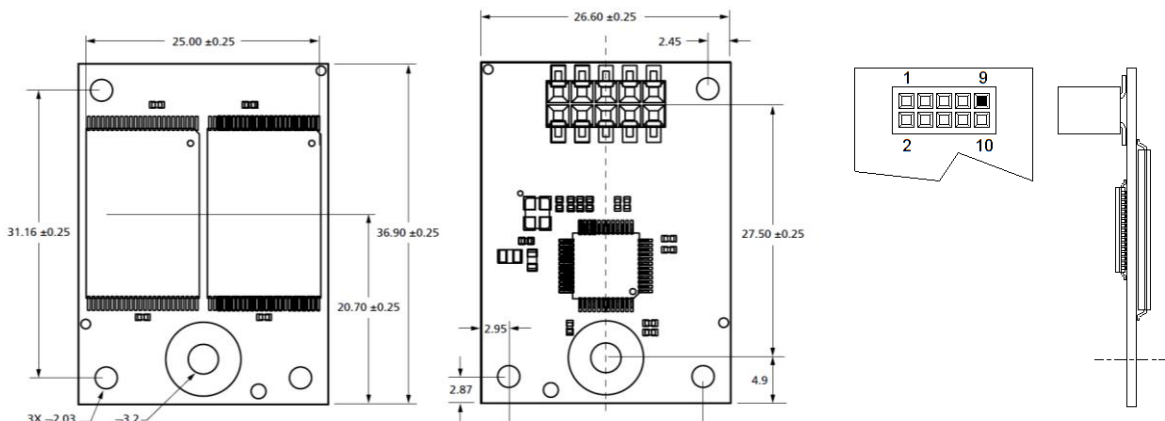
APPLICATIONS:

Embedded Systems, Military, Aerospace, Networking/Telecom, Storage Server, Medical, Gaming

Virtium TuffDrive™ Industrial eUSB Product family

SERIES	Conn Height	DENSITY	OPERATING TEMP.	READ SPEED	WRITE SPEED	FLASH TYPE	INTERFACE	P/N
VUS100	2.54mm	2GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-02G-U0IS-AA
VUS100	2.54mm	4GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-04G-U0IS-AA
VUS100	2.54mm	8GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-08G-U0IS-AA
VUS100	2.54mm	16GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-16G-U0IS-AA
VUS200	2.00mm	2GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-02G-U0IS-AA
VUS200	2.00mm	4GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-04G-U0IS-AA
VUS200	2.00mm	8GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-08G-U0IS-AA
VUS200	2.00mm	16GB	-40° to +85°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-16G-U0IS-AA

Mechanical Outlines



Virtium TuffDrive™ Commercial eUSB Product family

SERIES	Conn Height	DENSITY	OPERATING TEMP.	READ SPEED	WRITE SPEED	FLASH TYPE	INTERFACE	P/N
VUS100	2.54mm	2GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-02G-U0CS-AA
VUS100	2.54mm	4GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-04G-U0CS-AA
VUS100	2.54mm	8GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-08G-U0CS-AA
VUS100	2.54mm	16GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS1-16G-U0CS-AA
VUS200	2.00mm	2GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-02G-U0CS-AA
VUS200	2.00mm	4GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-04G-U0CS-AA
VUS200	2.00mm	8GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-08G-U0CS-AA
VUS200	2.00mm	16GB	0° to +70°C	30MB/s	15MB/s	SLC	USB 2.0	VUS2-16G-U0CS-AA



Virtium Technology provides memory and solid state storage solutions for single board computers and high-reliability systems.

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