

Embedded USB Flash Based Drive

eUSB Flash Drive

SMART Modular Technologies' Embedded USB (eUSB) Flash drive is designed as the main boot and storage device in embedded systems. The eUSB's small form factor, lower power consumption and fast access times offer distinct technical advantages over more traditional mass storage devices.

Available in sizes up to 32GB, SMART's commercial and industrial grade eUSB drives are offered in both 3.3V or 5V versions. With random access times that are typically less than 1ms for the drive, the eUSB is capable of read speeds up to 46MB/s and write speeds up to 34MB/s.

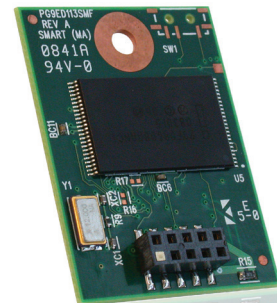
Utilizing the USB interface, eUSB products are easily integrated into host systems without any special BIOS modifications or additional device drivers. SMART eUSB products provide reliability by incorporating onboard error detection and correction. Static and dynamic wear leveling algorithms also help to produce reliable operation over product life cycles.

Features & Benefits

- SLC NAND Technology
- Supports bootability with most standard BIOSs
- Low power dissipation: less than 0.45W active (0.68W for 5V version) and less than 10mW standby
- Small footprint header: industry standard header or low profile stacking header available
- Optional HW Reset and Write Protect support

Product Family Overview

	Capacity	Performance Sequential
eUSB		
USB 2.0 Compliant	1GB to 32GB	Up to 46MB/s (read) Up to 34MB/s (write)



Applications

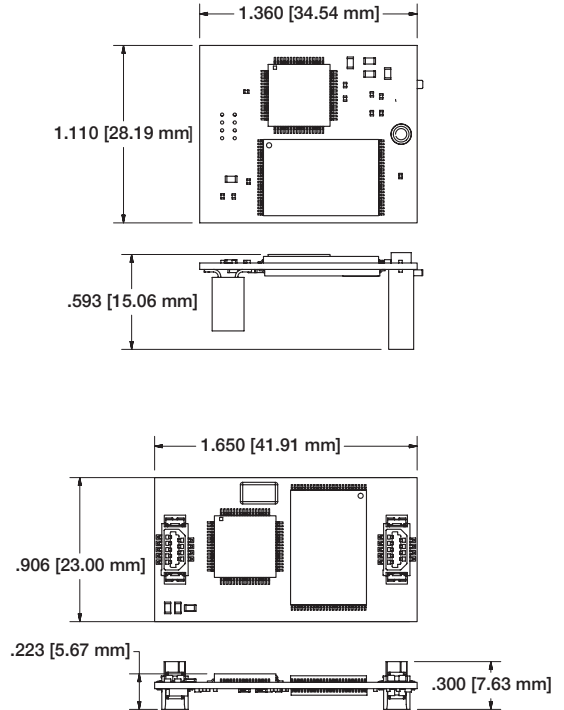
- Single board computers for defense, gaming and industrial control applications
- Telecom and networking routers and switches
- ATCA compute blades
- Networking
- Industry standard servers

eUSB Ordering Information

STD Profile Connector		
Part Number	Voltage	Capacity
SHEU52L001GQ4Tx	5V	1GB
SHEU52L002GQ9Tx	5V	2GB
SHEU52L004GQATx	5V	4GB
SHEU52L008GQBTx	5V	8GB
SHEU52L016GQCTx	5V	16GB
SHEU52L032GQDTx	5V	32GB
Low Profile Connector		
Part Number	Voltage	Capacity
SHEU32U001GQ4Tx	3.3V	1GB
SHEU32U002GQ9Tx	3.3V	2GB
SHEU32U004GQATx	3.3V	4GB
SHEU32U008GQBTx	3.3V	8GB
SHEU32U016GQCTx	3.3V	16GB
SHEU32U032GQDTx	3.3V	32GB
SHEU52U001GQ4Tx	5V	1GB
SHEU52U002GQ9Tx	5V	2GB
SHEU52U004GQATx	5V	4GB
SHEU52U008GQBTx	5V	8GB
SHEU52U016GQCTx	5V	16GB
SHEU52U032GQDTx	5V	32GB
2mm Connector		
Part Number	Voltage	Capacity
SHEU32M001GQ4Tx	3.3V	1GB
SHEU32M002GQ9Tx	3.3V	2GB
SHEU32M004GQATx	3.3V	4GB
SHEU32M008GQBTx	3.3V	8GB
SHEU32M016GQCTx	3.3V	16GB
SHEU32M032GQDTx	3V	32GB
SHEU52M001GQ4Tx	5V	1GB
SHEU52M002GQ9Tx	5V	2GB
SHEU52M004GQATx	5V	4GB
SHEU52M008GQBTx	5V	8GB
SHEU52M016GQCTx	5V	16GB
SHEU52M032GQDTx	5V	32GB

x = C for Commercial Temp
x = I for Industrial Temp

eUSB Diagram



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