

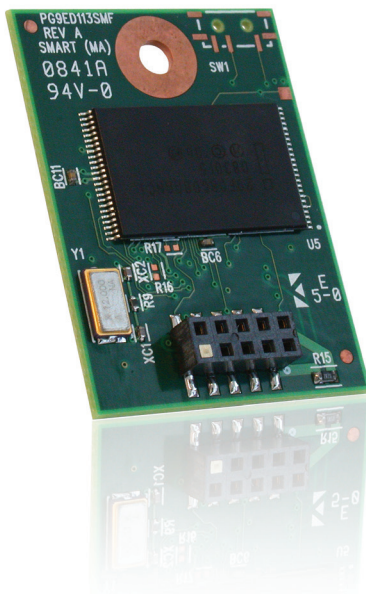
eUSB Flash Drive

Embedded USB Flash Based Drive

SMART Modular Technologies' Embedded USB (eUSB) is a Flash based drive designed to be used as a main boot and storage device for 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 industrial-grade eUSB drives are offered in both 5V and 3.3V 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 a host system without any special BIOS modifications or additional device drivers. SMART eUSB products address the need for enhanced reliability by incorporating on board error detection and correction and static wear leveling algorithms to provide reliable operation over the product life cycle.



Product Family At-A-Glance

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

Features

- SLC NAND Technology
- Supports bootability with most standard BIOSs
- Industrial Grade range 0°C to 70°C
- Industrial Temp range -40°C to 85°C
- Low power dissipation: less than .45W active (.68W for 5V version) and less than 10mW standby
- USB 2.0 Specification Hi-Speed compatible
- Capacity range 256MB to 16GB
- Small footprint header, industry standard header, or low profile stacking header tailored for embedded systems design
- Optional HW Reset and Write Protect support
- Firmware upgradeable via USB bus

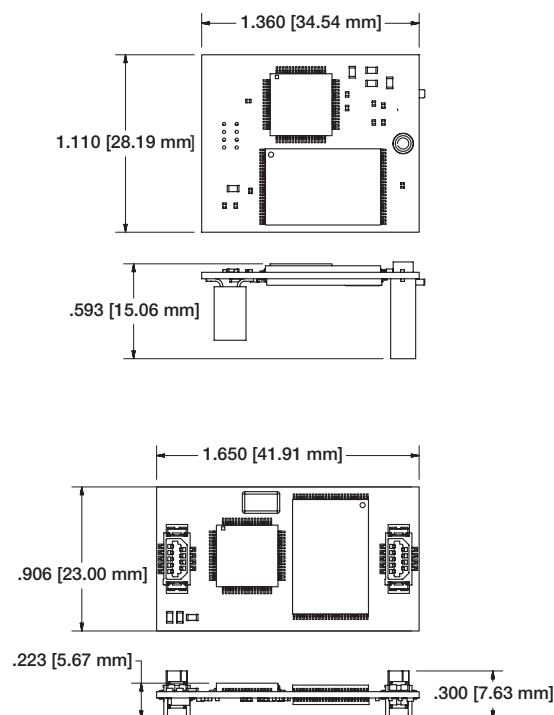
Applications

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

Ordering Information

STD Profile Connector		
Part Number	Voltage	Capacity
SHEU52L001GQ4TC	5V	1GB
SHEU52L002GQ9TC	5V	2GB
SHEU52L004GQATC	5V	4GB
SHEU52L008GQBTC	5V	8GB
SHEU52L016GQCTC	5V	16GB
SHEU52L032GQDTC	5V	32GB
Low Profile Connector		
Part Number	Voltage	Capacity
SHEU32U001GQ4TC	3V	1GB
SHEU32U002GQ9TC	3V	2GB
SHEU32U004GQATC	3V	4GB
SHEU32U008GQBTC	3V	8GB
SHEU32U016GQCTC	3V	16GB
SHEU32U032GQDTC	3V	32GB
SHEU52U001GQ4TC	5V	1GB
SHEU52U002GQ9TC	5V	2GB
SHEU52U004GQATC	5V	4GB
SHEU52U008GQBTC	5V	8GB
SHEU52U016GQCTC	5V	16GB
SHEU52U032GQDTC	5V	32GB
2mm Connector		
Part Number	Voltage	Capacity
SHEU32M001GQ4TC	3V	1GB
SHEU32M002GQ9TC	3V	2GB
SHEU32M004GQATC	3V	4GB
SHEU32M008GQBTC	3V	8GB
SHEU32M016GQCTC	3V	16GB
SHEU32M032GQDTC	3V	32GB
SHEU52M001GQ4TC	5V	1GB
SHEU52M002GQ9TC	5V	2GB
SHEU52M004GQATC	5V	4GB
SHEU52M008GQBTC	5V	8GB
SHEU52M016GQCTC	5V	16GB
SHEU52M032GQDTC	5V	32GB

eUSB Diagram



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