SMART ®
Modular Technologies

Embedded USB Flash Based 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 35MB/s and write speeds up to 25MB/s.
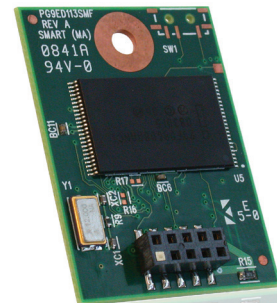
Utilizing the USB interface, eUSB products are easily integrated into host systems without any special BIOS modifications or additional device drivers. SMART eUSB products provide reliability by incorporating onboard error detection and correction. Static and dynamic-wear leveling algorithms also help to produce reliable operation over product life cycles.

Features & Benefits

• SLC NAND Technololgy

• 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

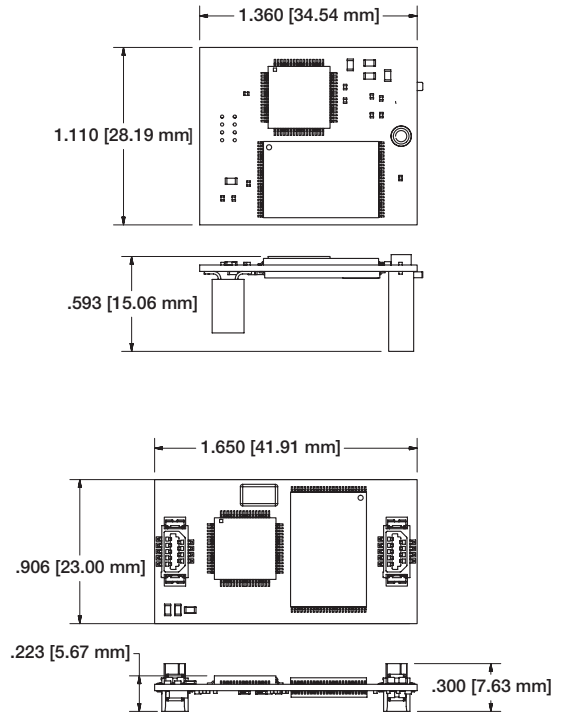|	Capacity	Performance Sequential
eUSB		
USB 3.0 Compliant	1GB to 32GB	Up to 35MB/s (read) Up to 25MB/s (write)

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 Flash Drive

eUSB Ordering Information

STD Profile Connector		
Part Number	**Voltage**	**Capacity**
SSEU52L001GQ4Bx	5V	1GB
SSEU52L002GQ9Bx	5V	2GB
SSEU52L004GQABx	5V	4GB
SHEU52L008GQBUx	5V	8GB
SHEU52L016GQCUx	5V	16GB
SHEU52L032GQDUx	5V	32GB

Low Profile Connector		
Part Number	**Voltage**	**Capacity**
SSEU32U001GQ4Bx	3.3V	1GB
SSEU32U002GQ9Bx	3.3V	2GB
SSEU52U004GQABx	3.3V	4GB
SHEU32U008GQBUx	3.3V	8GB
SHEU32U016GQCUx	3.3V	16GB
SHEU52U032GQDUx	3.3V	32GB
SSEU52U001GQ4Bx	5V	1GB
SSEU52U002GQ9Bx	5V	2GB
SSEU52U004GQABx	5V	4GB
SHEU52U008GQBUx	5V	8GB
SHEU52U016GQCUx	5V	16GB
SHEU52U032GQDUx	5V	32GB

2mm Connector		
Part Number	**Voltage**	**Capacity**
SSEU32M001GQ4Bx	3.3V	1GB
SSEU32M002GQ9Bx	3.3V	2GB
SSEU32M004GQABx	3.3V	4GB
SHEU52M008GQBUx	3.3V	8GB
SHEU32M016GQCUx	3.3V	16GB
SHEU52M032GQDUx	3.3V	32GB
SSEU52M001GQ4Bx	5V	1GB
SSEU52M002GQ9Bx	5V	2GB
SSEU52M004GQABx	5V	4GB
SHEU52M008GQBUx	5V	8GB
SHEU52M016GQCUx	5V	16GB
SHEU52M032GQDUx	5V	32GB

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

eUSB Diagram

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