

HU250e USB 3.0 eUSB Flash Drive

SMART's HU250e USB 3.0 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.

Utilizing the USB interface, eUSB products are easily integrated into host systems without any special BIOS modifications or additional device drivers. SMART's HU250e USB 3.0 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 Flash
- Support I-Temp (-40°C to +85°C)
- Compliant with Super Speed USB 3.0
- Come with Pin Pitch 2.0mm
- AES 256-Bit Encryption

Applications

- Gaming
- IIoT
- Industrial
- Military
- Transportation

Product Family Overview

Form Factor	Capacity	Sequential Performance
USB 3.0 eUSB Flash Drive	8GB to 32GB	Up to 150MB/s Read Up to 90MB/s Write

Specifications

	HU250e USB 3.0 eUSB Flash Drive	
NAND Type	SLC	
Performance		
Host Interface Rate (maximum)	USB 3.0 (5Gb/s)	
Capacities	8GB to 32GB	
Sequential Read (maximum)	Up to 150MB/s	
Sequential Write (maximum)	Up to 90MB/s	
Reliability		
MTBF	> 4,000,000 hours	
Endurance (JEDEC Enterprise Workload) ¹	32GB: 280 TBW	
	16GB: 120 TBW	
	8GB: 60 TBW	
Error Correction	96 Bit/1K BCH	
Power		
Input Voltage	VCC: 3.3 V ± 5% or 5V± 5%	
Environmental		
Shock	200 g, 2 msec, 1 shock along each axis, X, Y, Z, in each direction	
Vibration	1.04g rms, 2 Hz to 200 Hz, 10 minutes each 3 axes	
Operating Temperature	Industrial: -40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Humidity	40°C, Operation: 90% RH, Storage: 93% RH	
Physical		
Length	36.9 mm	
Width	26.6 mm	
Height	M: Pin pitch 2.00 mm, H: 3.68 mm	

Ordering Information

Part Number	Density	
HU250e (5V, Pin 1, M Connector) Industrial Operating Temperature (-40°C to +85°C)		
SHU35MBGHAIEI01	32GB	
SHU35MAGHAIDI01	16GB	
SHU35M8GHAICI01	8GB	
HU250e (3.3V, Pin 9, M Connector) Industrial Operating Temperature (-40°C to +85°C)		
SHU33MBGHAIEI01	32GB	
SHU33MAGHAIDI01	16GB	
SHU33M8GHAICI01	8GB	

¹Endurance is directly related to the User Specific Workload.



For more information, please visit: www.smartm.com

*Product images are for promotional purposes only. Labels may not be representative of the actual product.

Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231 F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:

T: (+55) 11 4417-7200 • E: sales.br@smartm.com

EMEA:

T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Asia/Pacific:

T: (+65) 6678-7670 • E: sales.asia@smartm.com

Customer Service:

T: (+1) 510-623-1231 • E: customers@smartm.com

©2024, SMART Modular Technologies, All rights reserved. The stylized "S" in conjunction with "SMART", as well as "SMART Modular Technologies" are registered trademarks of SMART Modular Technologies. All other trademarks are the property of the respective owners. These materials are provided by SMART Modular Technologies as a service to its customers and may only be used for informational purposes. 10.11.24/HU250e_eUSB3.0/Rev.1