

PRODUCT BRIEF | eUSB, eUSB (eMMC) SSD

EMBEDDED USB (eUSB)

The embedded USB (eUSB) module from Viking Technology provides a rugged, reliable and cost effective non-volatile memory solution to OEM customers in the Networking, Embedded and Industrial markets. eUSB modules are secure pluggable USB 2.0/3.0 devices with built-in ECC and global wear-leveling for exceptional reliability and product lifetime. Viking eUSB modules are available in capacities up to 128GB and deliver performance up to 35 MB/s.

FEATURES

- ▶ Reduced size eUSB
- ▶ Optimized for space constraint routers/switches
- ▶ Available in iTemp & cTemp configurations
- ▶ Cost effectiveness utilizing eMMC Flash
- ▶ ECC and Data Management
- ▶ Extremely low cost alternative

APPLICATIONS SERVED

Screw mountable for ruggedization	Cost effectiveness utilizing eMMC Flash	Low-cost endurance alternative to SLC NAND
ECC & Data Management	Highest endurance	Extremely low cost alternative



EMBEDDED USB (eUSB)

CAPACITY	
SLC	Up to 128GB
PERFORMANCE	
Sustained Read	Up to 35MB/s
Sustained Write	Up to 23MB/s
Interface	USB 2.0 / USB 3.0
RELIABILITY	
ECC	Embedded 8-bit ECC
MTBF	>2,500,000 hours
Data Retention	10 years
Bit Error Rate (BER)	<1 in 10 ¹⁴ bits read

ENVIRONMENTAL	
Shock	1500g
Vibration	20g
Operating Temp	0°C to 70°C (Ctemp) -40°C to 85°C (Itemp)
Altitude	80,000 ft
Humidity	5% to 95%, non-condensing, relative
Safety/Agency/Compliance	FCC, CE, RoHS
POWER	
Voltage	5V Standard, 3.3V Optional
DIMENSIONS	
37.8mm x 26.6mm x 7.8mm	

eUSB PART NUMBERS

FORM FACTOR	INTERFACE	TEMP	CAPACITY	P/N	CONTROLLER	NAND
eUSB LowProfile	USB2.0	0°C to+70°C	2GB	VRFDUC3L2048YCE3A8	SMI3252	TSB 24nm SLC
eUSB LowProfile	USB2.0	0°C to+70°C	4GB	VRFDUC3L4096YCH3A6	SMI3252	TSB 24nm SLC
eUSB LowProfile	USB2.0	0°C to+70°C	8GB	VRFDUC3L8192ACQ3TH	SMI3252	TSB 24nm SLC
eUSB LowProfile	USB2.0	0°C to+70°C	16GB	VRFDUC3L016GACR3TH	HyperstoneU8	TSB 24nm SLC
eUSB LowProfile	USB2.0	0°C to+70°C	30GB	VRFDUC3L030GACSTH	HyperstoneU8	TSB 24nm SLC
eUSB LowProfile	USB2.0	0°C to+70°C	30GB	VRFDUC3L030GAISTH	HyperstoneU8	TSB 24nm SLC

eUSB (eMMC) PART NUMBERS

FORM FACTOR	INTERFACE	TEMP	CAPACITY	P/N	CONTROLLER	NAND
eUSB StdProfile	USB2.0	0°C to+70°C	8GB	VRFDUC38192ACSTH	HyperstoneU8	TSB 24nm SLC
eUSB StdProfile	USB2.0	-40°C to+85°C	8GB	VRFDUC38192AISTH	HyperstoneU8	TSB 24nm SLC
eUSB StdProfile	USB2.0	0°C to+70°C	16GB	VRFDUC3016GACSTH	HyperstoneU8	TSB 24nm SLC
eUSB StdProfile	USB2.0	-40°C to+85°C	16GB	VRFDUC3016GAISTH	HyperstoneU8	TSB 24nm SLC
eUSB StdProfile	USB2.0	0°C to+70°C	30GB	VRFDUC3030GACSTH	HyperstoneU8	TSB 24nm SLC
eUSB StdProfile	USB2.0	-40°C to+85°C	30GB	VRFDUC3030GAISTH	HyperstoneU8	TSB 24nm SLC

For price and availability, please email us at sales@vikingtechnology.com.



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