

DELKIN DEVICES

OEM BLUE SHEET

USB DISK ON MODULE, INDUSTRIAL AND EXTENDED TEMPERATURE

Delkin's USB Disk on Module is based on a USB 2.0 controller with an interface to NAND Flash Memory. This Flash USB module is specially designed for motherboard applications, and its use will reduce the R/D to production cycle. It supports USB Mass Storage function and USB boot function from BIOS. This module is easy to install, easy to use and highly reliable. It is a solution to replace hard drives in embedded and computerized systems that require highly reliable, fast storage.

FREE 1GB FLASH DRIVE! OFFER EXPIRES 9/30/08

- [Contact us with your project requirements, RFQ or sample for qualification.](#)

BENEFITS

- USB Disk on Module is based on ubiquitous, proven solid state mass storage and USB technology
- Cost effective compared to hard disks
- Provides ATA/IDE hard disk drive functionality, protocol, and compatibility in a single device with solid state flash drive
- Requires no additional or proprietary software –using the standard ATA driver means no additional BIOS and OS modification is required



FEATURES

- Complies with Standard ATA Interface
- Compatible with IDE Interface (40pin / 44pin)
- Capacity: 16MB ~ 16GB
- Extremely Low Seek Time
- No Latency Delay
- Higher Shock Tolerance than HDD

APPLICATIONS

- Portable computers
- PC/104
- Embedded applications for industry and defense
- Surveillance, medical
- Telecom, servers, data loggers

SAMPLE PART NUMBERS

- USX01GB14D1J5AAG00, USX02GB14D1J5AAG00

SPECIFICATIONS

Parameter	Symbol	Min	Max	
DC Power Supply	$V_{DD}-V_{SS}$	-0.3 V	+5.5 V	
Input Voltage	V_{IN}	$V_{SS}-0.3 V$	$V_{DD}+0.3$	
Operating Temperature (Commercial)	T_a	0°C	70°C	
Operating Temperature (Industrial)	T_a	-40°C	85°C	
Storage Temperature (Commercial)	T_{st}	-40°C	85°C	
Storage Temperature (Industrial)	T_{st}	-50°C	125°C	
Parameter	Symbol	Min	Typ	Max
Operating Temperature (Commercial)	T_a	0°C	25°C	70°C
Operating Temperature (Industrial)	T_a	-40°C	25°C	85°C
V_{DD} Voltage	V_{DD}	3.0 V	3.3 V	3.6 V
V_{DD} Voltage	T_a	4.5 V	5.0 V	5.5 V

DIMENSIONS

- Size: 26.5 x 37.8 x 1.6 mm

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OEM CUSTOMER REQUIREMENTS

GENERAL QUESTIONS

Part #:	Date:
Acct Mgr:	Return Req'd?
Account:	Return to:
	Return by:

DISCOVERY QUESTIONS

- What is your product's application and project name?

- What are the memory capacity requirements for your application?

- How is the card being utilized in your design?

- What are the temperature specifications for your application?

- Will your application utilize DMA? (Direct memory access)

ACTION

What is the next Delkin step?

What is the next Delkin partner step?

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