

CACTUS TECHNOLOGIES USB Disk-On-Module (DOM) 100 Series



The Cactus Technologies USB Disk-On-Module (DOM) - 100 Series is a low capacity solid state flash memory product that complies with the USB2.0 standard. Cactus uDOMs provide up to 8GBs of formatted storage capacity and are designed to plug in directly to 10-pin USB headers on industrial PC motherboards. Cactus uDOMs are designed to be used in applications which require a low capacity solid state disk that is compatible with the USB interface.

CACTUS USB DOM

- **INDUSTRY STANDARD USB2.0 INTERFACE**
- **MODULE CAPACITIES**
 - 128MB to 8GB
- **PLUGS INTO INDUSTRY STANDARD 10-PIN USB HEADERS**
- **VOLTAGE SUPPORT**
 - 5.0V
- **UNIQUE ELECTRONIC SERIAL ID**
- **COMPLIANT WITH USB MASS STORAGE CLASS SPEC V1.0**
- **SUPPORTS BOOTING FROM USB DEVICE**
- **STANDARD OR LOW PROFILE CONFIGURATIONS**
- **SOLID STATE DESIGN WITH NO MOVING PARTS**
- **RELIABILITY**
 - Fast Data Transfer Rates
 - High Data Reliability
 - High Shock & Vibration Tolerances
 - Wide Operating Temp Range
- **ZERO DB NOISE**
- **6.5-MILLION HOUR MTBF**
- **5-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 33MB/sec

Write Data Transfer Rate

up to 26MB/sec



RELIABILITY

- Supports Wear Leveling
- Supports ECC
- Less Than 1 Error in 10^{14} Bits Read
- MTBF 6,500,000 Hours



ENVIRONMENTAL & POWER

Operating Temperature Range

Standard 0°C to 70°C

Extended -45°C to +90°C



POWER CONSUMPTION

	5.0V
Read	130mA
Write	130mA
Standby	58mA



SHOCK & VIBRATION

Shock	3000G
Vibration	20G peak-to-peak

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USB Disk-On-Module (DOM)
100 Series



INDUSTRIAL GRADE USB DOM

→ INTERFACE	Industry Standard USB2.0	
→ INTERFACE TRANSFER RATE	35MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	5V ± 10%
	Standby	58mA
	Read	130mA
	Write	130mA
→ ENVIRONMENTAL SPECIFICATION	Standard Temperature	0°C to 70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Acoustic Noise	0dB
	Vibration	20G peak to peak max.
	Shock	3000G max.
	Altitude	100,000 feet max.
→ RELIABILITY AND MAINTENANCE	Endurance	2,000,000 erase cycles per block
	MTBF	6,500,000 Hours
	Data Reliability	less than 1 Error in 10 ¹⁴ bits read
→ MODULE CAPACITY	128MB to 8GB	

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