

Industrial IDE Disk-On-Module (DOM)



The Cactus Technologies IDE Disk-On-Module (DOM)

is a small form factor Solid State Drive that complies with the industry standard IDE interface. We offer 3 configurations in both a 40-Pin and 44-Pin Variety to meet the physical size constraints of the embedded industry. These robust, reliable storage solutions are specifically designed for today's rigorous industrial market applications. The storage capacity of DOM is 128MB to 8GB.



44-pin DOM

Cactus IDE Disk-On-Module Features

- ◆ Industry Standard IDE Interface
- ◆ Capacities: 128MB to 8GB
- ◆ Six Configurations to ease Design
 - Vertical: 40 & 44-pin versions
 - Horizontal Right: 40 & 44-pin versions
 - Horizontal Left: 40 & 44-pin versions
- ◆ Interface Supports
 - PIO Modes 0 - 4
 - Multiword DMA Modes 0 - 2
 - UDMA Modes 0 - 4
- ◆ Supports Dual Voltage Support: 3.3V or 5.0V
- ◆ Unique Electronic Serial Card ID
- ◆ Traceability Barcode
- ◆ Solid State Design with no moving parts
- ◆ Industry Leading
 - Data Reliability
 - Shock & Vibration
 - Operating Temperature Range
 - Data Transfer Rates
- ◆ Zero dB Noise
- ◆ 4-Million Hour MTBF
- ◆ 5-year Warranty

Performance

Read Data Transfer Rate: 35MB/sec
 Write Data Transfer Rate: 20MB/sec

Reliability

Advanced Wear Leveling
 Error Checking & Correction
 Less than 1 Error in 10^{14} Bits read
 MTBF: 4,000,000 hours

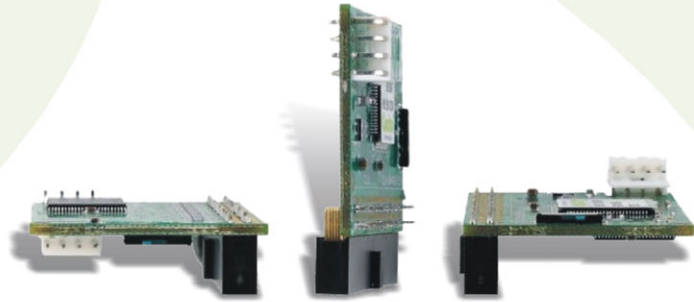
Environmental & Power

Operating Temperature Range
 Standard: 0°C to +70°C
 Extended: -45°C to +90°C

Power Consumption
 3.3V ±10%
 Read: 220mA
 Write: 180mA
 Sleep: 0.5mA

Shock & Vibration (MIL-STD-883G)
 Shock: 3,000G
 Vibration: 20G peak to peak

**Industrial Grade IDE
Disk-On Module (DOM)**



40-pin DOM

Interface	Industry Standard IDE	
Performance	Sustained Read	35 MB/sec
	Sustained Write	20 MB/sec
Power Requirement	DC Input Voltage	3.3V or 5.0V \pm 10%
	Sleep	0.5mA
	Read	220mA
	Write	180mA
Environmental Specification	Standard Temperature	0°C to +70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8 – 95%, non-condensing
	Acoustic Noise	0 dB
	Vibration	20G peak to peak max.
	Shock	3,000G max.
	Altitude	100,000 feet max.
Reliability and Maintenance	Endurance	2,000,000 erase cycles per block
	MTBF	4,000,000 Hours
	Data Reliability	less than 1 Error in 10 ¹⁴ Bits read
Module Capacity	128MB – 8GB	



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