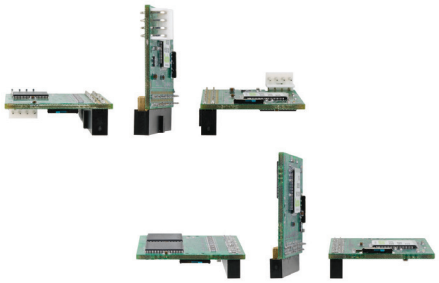
CACTUS TECHNOLOGIES

IDE Disk-On-Module (DOM)

303 Series



The Cactus Technologies IDE Disk-On-Module (DOM) - 303 Series is asmall 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.

CACTUS IDE DOM FEATURES

- **INDUSTRY STANDARD IDE INTERFACE**
- **SIX CONFIGURATIONS**
  - Vertical: 40 and 44-pin
  - Horizontal Right: 40 and 44-pin
  - Horizontal Left: 40 and 44-pin
- **CARD CAPACITIES**
  - 128MB to 8GB
- **INTERFACE SUPPORTS**
  - ATA PIO Mode 0-4
  - Multiword DMA Mode 0-2
  - UDMA Mode 0-4
- **DUAL VOLTAGE SUPPORT**
  - 3.3V or 5.0V
- **UNIQUE ELECTRONIC SERIAL CARD ID**
- **TRACEABILITY DATE CODE**
- **SOLID STATE DESIGN**
- **INDUSTRY LEADING**
  - Data Reliability
  - Shock & Vibration
  - Operating Temp Range
  - Data Transfer Rates
- **ZERO DB NOISE**
- **4-MILLION HOUR MTBF**
- **5-YEAR WARRANTY**

PERFORMANCE

Read Data Transfer Rate
up to 35MB/sec

Write Data Transfer Rate
up to 20MB/sec

RELIABILITY

- Advanced Wear Leveling Algorithm
- Industrial 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

	5.0V
Read	220mA
Write	180mA
Sleep	0.5mA

SHOCK & VIBRATION

Shock	3,000G
Vibration	20G peak-to-peak

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IDE Disk-On-Module (DOM)

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INDUSTRIAL GRADE SOLID STATE DRIVE

INTERFACE	**Industry Standard IDE**	
INTERFACE TRANSFER RATE	**66MB/sec**	
POWER REQUIREMENT	**DC Input Voltage**	5V ± 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	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	4,000,000 Hours
	Data Reliability	less than 1 Error in 10^{14} bits read
CARD CAPACITY	**128MB to 8GB**	

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