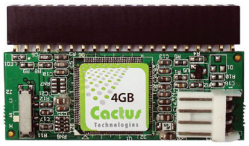
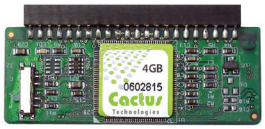
CACTUS TECHNOLOGIES

IDE Disk-On-Module (DOM)

203 Series





The Cactus Technologies IDE Disk-On-Module (DOM) - 203 Series is a small form factor solid-state flash memory product that complies with the industry standard IDE standard Interface. We offer 40-Pin and 44-Pin DOM line of robust and reliable storage solutions designed specifically for today's rigorous industrial market applications. The storage capacity of DOM is 128MB to 4GB

CACTUS IDE DOM FEATURES

- **INDUSTRY STANDARD IDE INTERFACE**
- **CARD CAPACITIES**
  - 128MB to 4GB
- **INTERFACE SUPPORTS**
  - 40-Pin/44-Pin Form Factor
  - ATA PIO Mode 0-4
  - Multiword DMA Mode 2
- **DUAL VOLTAGE SUPPORT**
  - 3.3V or 5.0V
- **UNIQUE ELECTRONIC SERIAL CARD ID**
- **TRACEABILITY BARCODE**
- **SOLID STATE DESIGN WITH NO MOVING PARTS**
- **RELIABILITY**
  - High Data Reliability
  - High Shock & Vibration Tolerances
  - Wide Operating Temp Range
- **ZERO DB NOISE**
- **4-MILLION HOUR MTBF**
- **5-YEAR WARRANTY**

PERFORMANCE

Read Data Transfer Rate
up to 8MB/sec

Write Data Transfer Rate
up to 6MB/sec

RELIABILITY

- Supports Wear Leveling
- Supports ECC
- 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	5.0V
Read	45mA	47mA
Write	53mA	58mA
Sleep	0.4mA	0.8mA

SHOCK & VIBRATION

Shock	50G
Vibration	15G peak-to-peak

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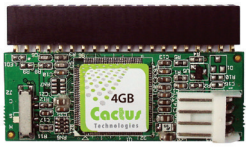

INDUSTRIAL GRADE IDE DOM

INTERFACE	**Industry Standard IDE**		
INTERFACE TRANSFER RATE	**16.70MB/sec**		
POWER REQUIREMENT	**DC Input Voltage**	3.3V ± 10% or 5V ± 10%	
	Sleep	0.4mA	0.8mA
	Read	45mA	47mA
	Write	53mA	58mA
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	15G peak to peak max.	
	Shock	50G max.	
	Altitude	70,000 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 4GB**		

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