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 10¹⁴ 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

CACTUS TECHNOLOGIES IDE Disk-On-Module (DOM) 303 Series





INDUSTRIAL GRADE SOLID STATE DRIVE

→ INTERFACE	Industry Standard IDE	
	4000	
→ 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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