The Cactus Technologies 2.5" IDE Solid State Drive (SSD) - 303 Pro Series is a high capacity solid-state flash memory product that complies with the IDE interface. In addition to the normal features found on the 303 Series 2.5" SSD, the Pro Series offers several security, purge, and write protect features. There is also a version with a physical write protect switch.

CACTUS 2.5" SSD PRO FEATURES

➔ **ATA SECURITY FEATURE SET:**
  • Set/Disable Password
  • Security Lock/Unlock
  • Additional Functions

➔ **CTPURGE: GENERIC ERASE OPTIONS:**
  • Erase Only
  • Erase and Overwrite with random data once
  • Erase and Overwrite with random data N times

➔ **CTPURGE: ERASE OPTIONS ACCORDING TO:**
  • USA-AF AFSSI 5020 spec
  • USA Navy NAVSO P-5239-26 spec
  • DoD 5220.22-M spec
  • NSA Manual 130-2 spec
  • USA-Army 380-19 spec
  • NISPOMSUP Chap.8, Sect.8-501 spec
  • IREC (IRIG) 106 specification
  • Others upon customer request

➔ **CTLOCK: SIMPLIFIED LOCK/UNLOCK COMMAND**

➔ **CTWPROT - WRITE PROTECT:**
  • Software Command
  • Hardware selection

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

CACTUS TECHNOLOGIES
2.5" IDE Solid State Drive (SSD)
303 Pro Series

Cactus Technologies

INDUSTRIAL GRADE IDE 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 32GB	

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