Design & Technology :

The MS 500 is a mSATA interface flash memory driver that feature a flash disk controller chip and NAND type flash memory devices. The MS 500 is available in 16 GB to 128 GB capacities. The drives support SATA I / II data transfer. The MS 500 mSATA is geared specifically to the industrial market for use in such products as ATM, factory automation machines, POS terminals, Measuring products, Ticket-vending machines, parking systems and other industrial products that require high tolerance to environmental.

Applications :

- Industrial/Embedded System
- Enterprise
- Commercial
- Handheld devices

Key Features :

- High capacity in small form factor
  - 16 GB ~ 128 GB (MLC)
- mSATA Connector
- SATA I/II, 1.5/3.0Gbps
- High performance
  - Sequential Read/Write :
    - Up to 153/77 MB/s
- Low Power consumption
- Certificate
  - CE and FCC Compatibility
  - RoHS Compliance

Specification :

PERFORMANCE	
Max Sequential Read*	Up to 153 MB/s
Max Sequential Write*	Up to 77 MB/s
Random IOPS Read @4KB*	Up to 4,700
PHYSICAL	
Unformatted Capacity	16 / 32 / 64 / 128 GB (MLC)
Media Type	Multi Layer Cell (MLC) NAND Flash
Interface	Support the mSATA Standard (JEDEC MO-300)
Form Factor	Mini-PCIe / mSATA
Connector	mSATA 52pins standard
Dimensions (mm)	51.0*30.0*3.4
ENVIROMENTAL	
Operation Temperature	0°C ~ 70°C
Power Supply	External Power 3.3V ± 5 %
Preventive technology	
Endurance enhanced by global static-wear-leveling	
Support Bad Blocks Management	
RoHS Compliance	
Endurance : Write/Erase: MLC 3~5k cycles (typ.) Read: Unlimited	
System Performance : Access time: 0.3 ms Bus transfer speed: 300MBytes/Sec (Peak time).	
CE and FCC Compatibility	

*Speed may vary due to host hardware, software and usage.