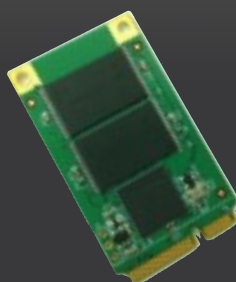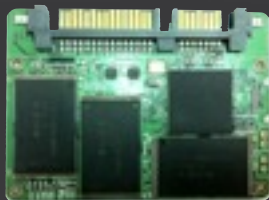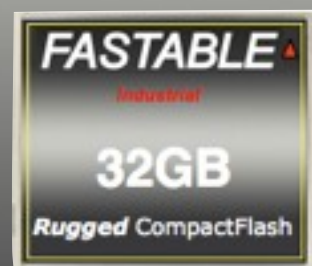# FASTABLE

Industrial Storage Series

FASTABLE

GD100

Utmost Power Savings
SATA Solid State Drive

Features

Standard 2.5" SATA II SSD

Support SATA 1.5Gbps and 3Gps interface

Compliant with SATA revision 2.6 Built-in ECC function

Support TRIM command

Support S.M.A.R.T. function

Anti-vibration, high-heat resistance, and shock resistance

Low power consumption SATA SSD solution

Operating voltage: 5V

Operating temperature: 0°C~70°C / -40°C ~ +85°C(optional)

Fully compliant with RoHS, CE and FCC directive

Physical Specifications

	GD100
Capacity	4GB~256GB
Dimension	69.85mm(L) x 100mm(W) x 9.5mm(H)
NAND Flash	SLC/ MLC
Package	Complete Metal Housing

Performance Specification

	GD100
SLC	R: 130MB/S W: 120MB/S
MLC	R: 120MB/S W: 110MB/S

Environmental Specifications

	GD100
Shock (operating)	1500G
Vibration (operating)	20G peak

Reliability Specification

	GD100
MBTF	2,000,000 hours
Data Reliability	Built in ECC function
Warranty	3 years

GD110

Utmost Power Savings SATA Solid State Module
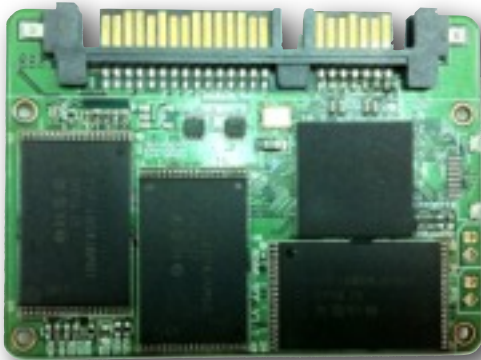
Features

1.5" Standard JEDEC-MO297 SATA II SSD Module

Support SATA 1.5Gbps and 3Gps interface

Compliant with SATA revision 2.6 Built-in ECC function

Support TRIM command

Support S.M.A.R.T. function

Anti-vibration, high-heat resistance, and shock resistance

Low power consumption SATA SSD solution

Operating voltage: 5V

Operating temperature: 0°C~70°C / -40°C ~ +85°C(optional)

Fully compliant with RoHS, CE and FCC directive

Physical Specifications

	GD110
Capacity	4GB~128GB
Dimension	54mm(L) x 39mm(W) x 4mm(H)
NAND Flash	SLC/ MLC
Package	PCBA

Performance Specification

	GD110
SLC	R: 130MB/S W: 120MB/S
MLC	R: 120MB/S W: 110MB/S

Environmental Specifications

	GD110
Shock (operating)	50G
Vibration (operating)	5G

Reliability Specification

	GD110
MBTF	2,000,000 hours
Data Reliability	Built in ECC function
Warranty	3 years

GD120

Utmost Power Savings
SATA Solid State Module

Features

Standard JEDEC MO-300 mSATA SSD Module

Support SATA 1.5Gbps and 3Gps interface

Compliant with SATA revision 2.6 Built-in ECC function

Support TRIM command

Support S.M.A.R.T. function

Anti-vibration, high-heat resistance, and shock resistance

Low power consumption SATA SSD solution

Operating voltage: 3.3V

Operating temperature: 0°C~70°C / -40°C ~ +85°C(optional)

Fully compliant with RoHS, CE and FCC directive

Physical Specifications

	GD110
Capacity	4GB~64GB
Dimension	full size (50.80 x 29.85mm) mini size (26.80 x 29.85mm)
NAND Flash	SLC/ MLC
Package	PCBA

Performance Specification

	GD110
SLC	R: 130MB/S W: 120MB/S
MLC	R: 120MB/S W: 110MB/S

Environmental Specifications

	GD110
Shock (operating)	50G
Vibration (operating)	5G

Reliability Specification

	GD110
MBTF	2,000,000 hours
Data Reliability	Built in ECC function
Warranty	3 years

FASTABLE

PD100

Utmost Performance and Reliability SATA Solid State Drive

Features

Standard 2.5" SATA III SSD

Fully Compliant with Serial ATA International Organization: Serial ATA Revision 2.6

Fully Compliant with ATA/ATAPI-7 Standard

Built-in ECC function (Up to 24 bytes correctable per 512-byte sector) for longer data retention and drive lifespan

Embedded static wear-leveling technology for better reliability and longer lifespan

Support SMART (Self-Monitor Analysis and Reporting Technology)

Support Windows 7 Trim Command Low power consumption

Shock-proof, vibration-proof, and zero noise

Operating temperature: 0°C~70°C

Fully compliant with RoHS, CE and FCC directive

Physical Specifications

	PD100
Capacity	32GB~512GB
Dimension	69.85mm(L) x 100mm(W) x 9.5mm(H)
NAND Flash	MLC
Package	Complete Metal Housing

Performance Specification

	PD100
MLC	R: 520MB/S W: 520MB/S

Environmental Specifications

	PD100
Shock (operating)	1500G
Vibration (operating)	20G peak

Reliability Specification

	PD100
MBTF	2,000,000 hours
Data Reliability	Built in ECC function
Warranty	3 years

MD100

IDE Solid State Drive

Features

Perfect replacement for conventional hard disk:
 2.5" IDE & 1.8" Parallel-ATA (PATA, ZIF) interface

Fully compliant with ATA-7 standard

Power failure management: Power down recovery

High-reliability: shock-proof, vibration-proof

Reliable data transfer speed: Global wear-leveling algorithm

Low power consumption

High reliability based on the internal 18 bit ECC

Support SMART

Power supply: 1.8" - 3.3V / 2.5" - 5V

Operating temperature: 0°C~70°C / -40°C ~ +85°C(optional)

Fully compliant with RoHS, CE and FCC directive

Physical Specifications

	MD100
Capacity	4GB~128GB
Dimension	54mm(L) x 78.5mm(W) x 5mm(H)
NAND Flash	SLC/ MLC
Package	Complete Metal Housing

Performance Specification

	MD100
SLC	R: 110MB/S W: 70MB/S
MLC	R: 110MB/S W: 60MB/S

Environmental Specifications

	MD100
Shock (operating)	1500G
Vibration (operating)	20G peak

Reliability Specification

	MD100
MBTF	2,000,000 hours
Data Reliability	Built in ECC function
Warranty	3 years

UD100

Embedded USB DOM

Features

USB Interface
- High-speed USB 2.0 interface; backward compatible with USB 1.1
- Integrated USB 2.0 Transceiver Macrocell Interface (UTMI) and Serial Interface Engine (SIE)

Flash Interface
- Dual-channel & interleave mode support to achieve best performance
- Integrated ECC circuits for 4-byte error correction

8032 8-bit Micro-controller with enhanced feature
- One clock per instruction cycle
- Embedded RAM and ROM

Highest data transfer rate, supports dual channel interleave access

Write-Protect switch for security

Can be used for storage on the following operating systems:
- Windows 98/ME/2000/XP, Mac9.x above and
  Linux kernel 2.4 above are compatible

Support for major embedded OSs, including Windows XP Embedded and Linux

Physical Specifications

	UD100
Capacity	256MB~8GB
Dimension	26.65mm(L) x 37.80mm(W) x 7.70mm(H)
NAND Flash	SLC/ MLC
Package	PCBA

Performance Specification

	UD100
SLC	R: 30MB/S W: 18MB/S
MLC	R: 30MB/S W: 15MB/S

Environmental Specifications

	UD100
Shock (operating)	50G
Vibration (operating)	5G

Reliability Specification

	UD100
MBTF	1,000,000 hours
Data Reliability	Built in ECC function
Warranty	2 years

UD110

Embedded mSATA USB DOM

TIC's USB mini PCIe DOM UD110 series is designed with NAND type flash memory technology.

This product complies with 52 PIN embedded USB interface on mother-board and is suitable for data storage memory medium for portable system which requires small capacity main storage device or boot disk based on Linux, WinXP Embedded operating system.

By using mini PCIe DOM, it is possible to operate good performance for the portable system which has USB interface slots on the mother-board.

Physical Specifications

	UD110
Capacity	2GB~8GB(SLC) 4GB~32GB(MLC)
Dimension	26.65mm(L) x 37.80mm(W) x 7.70mm(H)
NAND Flash	SLC/ MLC
Package	PCBA

Performance Specification

	UD110
SLC	R: 30MB/S W: 18MB/S
MLC	R: 30MB/S W: 15MB/S

Environmental Specifications

	UD110
Shock (operating)	50G
Vibration (operating)	5G

Reliability Specification

	UD110
MBTF	1,000,000 hours
Data Reliability	Built in ECC function
Warranty	2 years

ISD

Industrial SD Series

Features

Fastable Industrial SD Series is an industrial grade SD/SDHC compatible memory card that withstands extreme environments such as high humidity, salt spray, bending test, plug cycle test and drop test. It boasts the15-bit ECC to ensure high reliability for the data you can never afford to lose, making it the most reliable among the industrial-grade storage products.

Specification

Capacity : 256MB ~ 8GB
Performance: Transfer rate up to 10MB/s
Uses SLC NAND Flash for better endurance
Resistance to humidity, salt spray, bending force
Embedded wear-leveling algorithm
Wide temperature support for operation and storage
Operation temperatures: -25℃ ~ +85℃
Storage temperatures: -40C℃ ~ +150℃
Built-in 15-bit ECC (Error Correction Code)

FASTABLE

ICF

Industrial CF Series

Features

Fastable Rugged CompactFlash Card is the most popular memory card in the industrial storage field. With ATA compatible characteristics, it is used as a hard drive or bootable device. Because of its dedicated flash controller and durable metal housing, Fastable Rugged CF cards can withstand harsh environments and a wide range of temperatures to
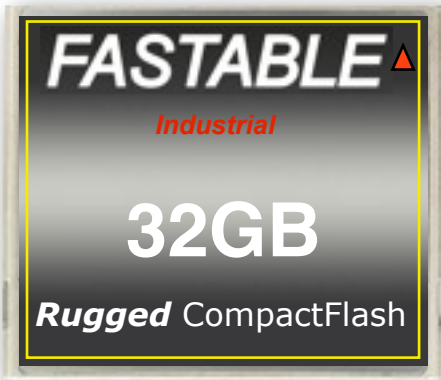
Specification

Compatible with CF3.0
Support CF security function, compliant with ATAPI-5/CFA version 4
Performance: High transfer rate up to 35MB/s under UDMA4 mode
Capacity : 128MB~ 32GB
Anti-vibration , high heat, and shock resistance
Operation temperature : -40°C ~ +85°C
Built-in ECC (Error Correction Code) detection
- Power: 3.3V ~ 5.5V
- Wear Leveling: Yes
- Fixed/Removable type: Optional
- ECC: 4bit
- UDMA Support: 4
- CHS Adjustable: Optional
- Power Cycling: Yes
- Security CF: Yes

RAM Module

Desktop RAM Module

DDR, DDR2, DDR3
DIMM modules up to 4GB
Dual Channel Kits up to 8GB (2x 4GB)

Available with or without ECC
Optional heat spreaders provide
exceptional thermal dissipation

Fastable Desktop memory is fully compliant with industry standards to ensure compatibility with motherboards and OEM systems. As a member of the JEDEC association, Fastable helps define future memory standards. All new products, new component suppliers, and technology changes are subjected to stringent hardware and software testing in our Compatibility Labs prior to production.

Fastable Desktop memory is 100% tested. Every Desktop module we build is tested in a motherboard at its rated specs to guarantee functionality. Backed with Fastable's lifetime warranty, our Desktop memory is ideal for system integrators and for upgrades.