

Disk On Module

USB Solution

CoreSolid Storage USB Solid State Disk(SSD) series based on NAND type flash memory technology. This product complies with 10 PIN embed 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, WinCE operating system. By using Solid State Disk, it is possible to operate good performance for the portable system which has USB interface slots on mother-board.

CoreSolid Storage Solid State Disk is a storage device based on flash memory technology, which emulates an ordinary magnetic hard disk. The Solid State Disk series products provide an all in one module solution for solid-state flash disk. The Solid State Disk is suitable for use in portable and embedded systems which have limited space and power consumption.

Unlike IDE drives, no signal cable and extra, special space is required. The Solid State Disk is a solid-state solution for IDE Hard Disk drive, which has no moving parts. That provides a good stability in a moving system. The Solid State Disk products are also free from extra and special algorithm or some firmware driver. Just plug the Solid State Disk into the USB slot and play it, users can play the Solid State Disk as same as the Hard Disk Drives.

The Solid State Disk family provides the capacities ranging from 2GB up to 8GB. In the future, the capacity will be increased up to 4GB.

Product Feature

- Small form factor with USB Standard inside Interface connector
- Compliant to USB 2.0 standard (backward compatible with USB1.1)
- Support Write Protect function
- Voltage 5.0V operation
- Data Storage Device up to 16GB
- Robust Error Correction
- High performance and High reliability
- Low power consumption
- Extended temperature operations, 0°C~+70°C



USB DOM Support Windows Vista ReadyBoost™ Embedded Device on Mother-Board

Specifications

Model		Gaia
Capacity	10 Pin Vertical	2GB ~ 8GB
	10 Pin Horizontal	2GB ~ 16GB
Voltage		DC +5.0V ± 10%
Interface		10 pin USB 2.0 / 1.1 interface
Standard Compliance		USB 2.0/1.1
Transfer Mode		USB 2.0/1.1 480Mbps
Performance		Notice: The value is various bases on the testing platform.
Sequential Read (Est.)		25 MB/sec (Single) 30 MB/sec (Dual)
Sequential Write (Est.)		20 MB/sec (Single) 25 MB/sec (Dual)
Power Consumption		<120mA
Operating Temperature		0°C to +70°C, (Industrial)
Operating Humidity		10% to 95%, (30°C Max. Wet Bulb Temp)
Read/Write Cycle		5,000,000 times
MTBF		2,000,000 hours
Shock		1,500G
Inserted Durability Test		Testing Condition: 3sec/cycle – Repeated Plug/Unplug 10,000 cycles
Data Retention		10 years without requiring power support
ECC		13 bits errorrection per 512 bytes
Standard		CE, FCC, RoHS
Dimension (L*W*T)mm		Vertical : 6.3 x 26.5 x 30.5 Horizontal : 22.0 x 35.5x 11.0
Weight		Vertical : < 5 gram Horizontal : < 6 gram

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Gaia USB DOM

2GB ~ 8GB

10 Pin USB 2.0 / 1.1 (Vertical)

Read : Est. 25 MB/sec

Write : Est. 20 MB/sec

30.4(L) x 26.4(W) x 6.2(T) mm

5 gram

Industrial



Gaia USB DOM

2GB ~ 16GB

10 Pin USB 2.0 / 1.1 (Horizontal)

Read : Est. 30 MB/sec for Dual

Write : Est. 25 MB/sec for Dual

35.5(L) x 22.0(W) x 11.0(T) mm

6 gram

Industrial