

# **Industrial 2.5" SATA SSD**

**CSXXXXXR1-XXXXXXXXX**

## 1. Description

CPI 2.5" SATA Solid Storage Disk (SSD) CSXXXXXXR1-XXXXXXX series is the storage device based on NAND flash memory technology. This product complies Serial ATA standard interface and is suitable for data storage media and code storage device for embedded system and boot disk. By using 2.5" SATA SSD, it is possible to operate good performance for the systems, which have SATA interface.

With small form factor, the applicable appliance can add or install SATA storage device on its Mother Board or Complete set.

## 2. Features

- Flash memory card capacity support list below:

### MLC FLASH TYPE

- 32GB
- 64GB
- 128GB
- 256GB
- 512GB

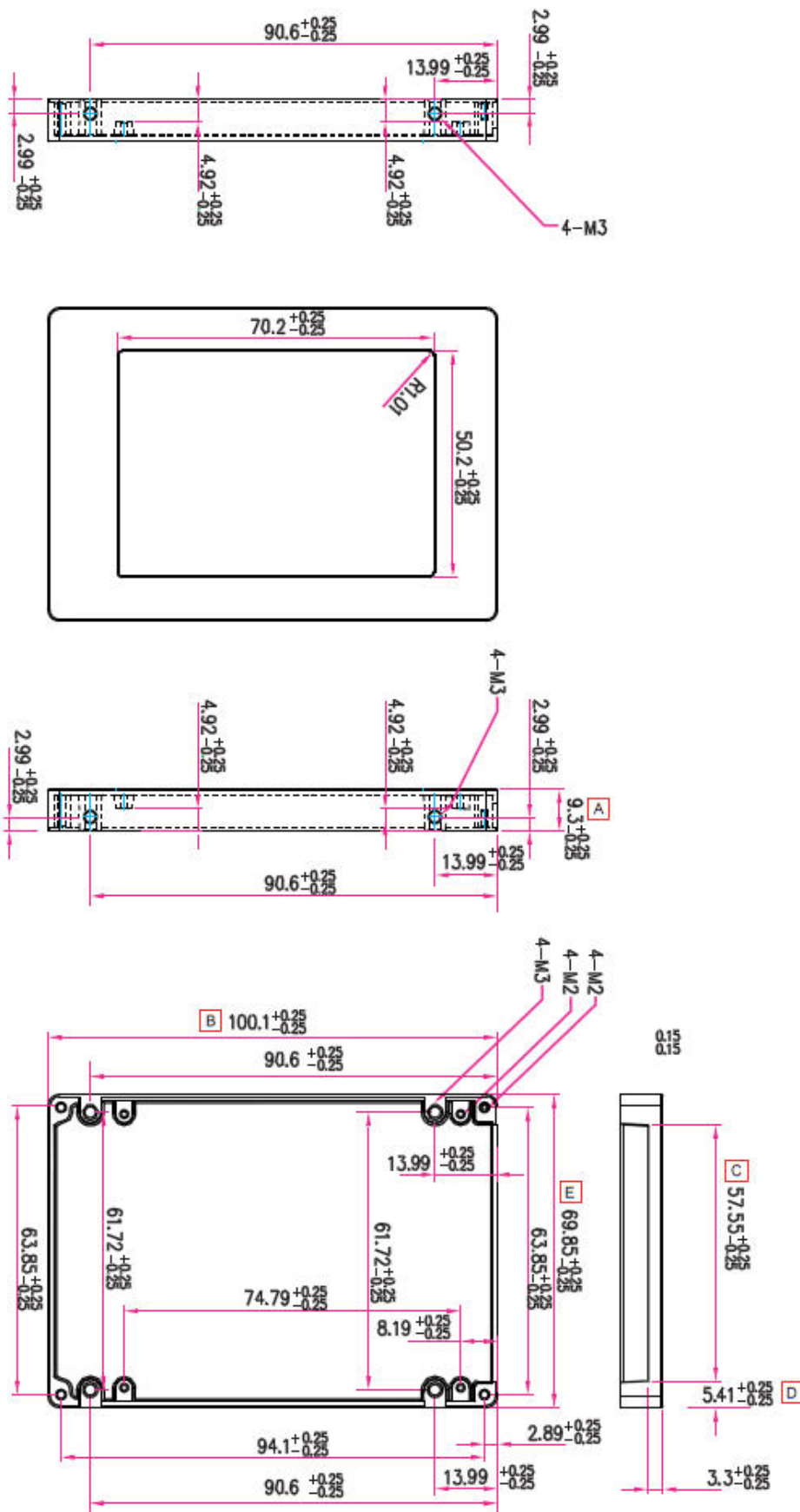
### SLC FLASH TYPE

- 16GB
- 32GB
- 64GB
- 128GB

- Supports 1-port 1.5/3.0Gbps SATA I/II interface.
- 32bits Embedded processor.
- 32 KBytes Embedded masked program ROM.
- 128 KBytes Embedded system RAM.
- Compliant with Universal Serial Bus Specification Revision 2.0
- Compliant with USB Mass Storage Class specification version 1.0.
- Compliant with Serial ATA International Organization: Serial ATA Revision 2.6.
- Embedded data buffer.
- High performance and reliability
- Noiseless and stable installation to system
- Operating voltage 5V operation
- Operating as Boot Disk
- Code Storage Device for Embedded Operating System
- RoHS compliant
- Power Supply: 5V±5%
- Supports BCH 16/24 bits ECC.
- Global wear-leveling algorithm eliminate excessive write operation and extends product life.

- Support Static Data Refresh & Early Retirement technology to monitor error bit level and react before data is corrupted.
- Support S.M.A.R.T (Self-defined)
- Support Security Command
- Fully compatible with devices and OS that support the SATA 3Gb/s standard
- Non-volatile SLC Flash Memory for outstanding data retention
- Durability of Connector: MLC 10,000 times SLC 100,000
- Operation Temperature range:  
Normal Temp: 0 to 70 °C . Storage Temperature range: -40 to 85 °C .  
Wide-Temp:-40 to 85 °C . Storage Temperature range: -40 to 85 °C .
- Humidity (Non condensation): -55% to +95%
- Read: Up to 250.0 MB/sec(Max.)
- Write: Up to 200.0 MB/sec(Max.)

6. Physical outline



# Datasheet

## 7. Ordering Information

P/N	Capacity(Max)	Remark
CSC032GR1-A504A002	32G	INTEL MLC
CSC064GR1-A504A002	64G	
CSC128GR1-A604A002	128G	
CSC256GR1-A704A003	256G	
CSC512GR1-A804A003	512G	
CSC016GR1-B304A001	16G	Samsung SLC
CSC032GR1-B404A001	32G	
CSC064GR1-B504A005	64G	
CSC128GR1-B604A005	128G	
CSC032GR1-D504A002	32G	INTEL SLC
CSC064GR1-D504A002	64G	
CSC128GR1-D604A002	128G	



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