

# SATA DOM

## ISMS331 (Horizontal)



The ISMS331 SATA DOMs are compact in size and available with vertical and horizontal connectors for high compatibility. They are equipped with MLC NAND flash for high durability and reliability with a 3K P/E cycle rating. What's more, the ISMS331 supports ECC (error correction) technology for superior data integrity and HW write protect to ensure data security. The ISMS331 is perfectly suited for industrial computers, embedded systems, POS/kiosk, networking, and healthcare applications.

### Features

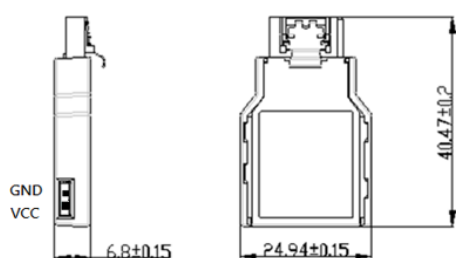
- MLC NAND flash for high reliability
- 3K P/E Cycles – improved endurance and product lifespan
- Wide temperature support: -40°C to 85°C
- Low Power Consumption: 1.6W
- Supports HW Write Protect for enhanced data security
- BCH ECC (error correction) Technology
- Supports Wear Leveling, Garbage Collection, S.M.A.R.T. Monitor, and Bad Block Management
- Suitable for Industrial PCs, Embedded Systems, POS/Kiosk, Networking, and Healthcare

## Specifications

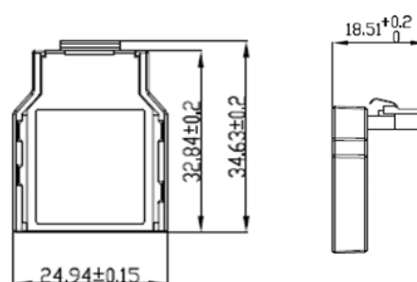
Model	ISMS331
Form Factor	SATA DOM
Capacity	8GB – 128GB
Interface	SATA III
Flash Type	MLC
Dimensions (L x W x H)	(With housing) 34.63 x 24.94 x 18.51mm; (Without housing) 32.56 x 23.4 x 17.33mm
Sequential Read (Max.)	340MB/s
Sequential Write (Max.)	200MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	5V
Power Consumption (Max.)	1.6W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	BCH ECC, Wear Leveling, Garbage Collection, Bad Block Management, S.M.A.R.T. Monitor, HW Write Protect

## Diagram

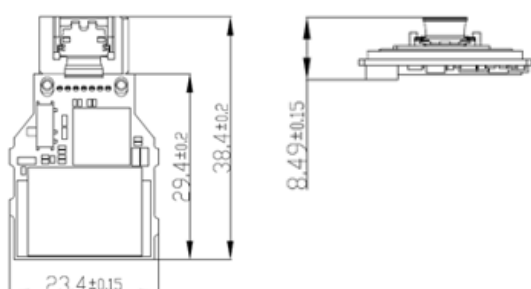
Vertical (with housing)



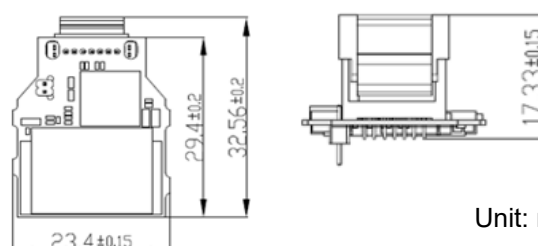
Horizontal (with housing)



Vertical (without housing)



Horizontal (without housing)



Unit: mm

**Ordering Information**

Capacity	Vertical (w/o housing)		Vertical (w/ housing)	
	MLC Standard (0°C to 70°C)	MLC Industrial (-40°C to 85°C)	MLC Standard (0°C to 70°C)	MLC Industrial (-40°C to 85°C)
<b>8GB</b>	ISMS331-008GMV	ISMS331-008GTV	ISMS331-008GMV	ISMS331-008GTV
<b>16GB</b>	ISMS331-016GMV	ISMS331-016GTV	ISMS331-016GMV	ISMS331-016GTV
<b>32GB</b>	ISMS331-032GMV	ISMS331-032GTV	ISMS331-032GMV	ISMS331-032GTV
<b>64GB</b>	ISMS331-064GMV	ISMS331-064GTV	ISMS331-064GMV	ISMS331-064GTV
<b>128GB</b>	ISMS331-128GMV	ISMS331-128GTV	ISMS331-128GMV	ISMS331-128GTV

Capacity	Horizontal (w/o housing)		Horizontal (w/ housing)	
	MLC Standard (0°C to 70°C)	MLC Industrial (-40°C to 85°C)	MLC Standard (0°C to 70°C)	MLC Industrial (-40°C to 85°C)
<b>8GB</b>	ISMS331-008GMH	ISMS331-008GTH	ISMS331-008GMH	ISMS331-008GTH
<b>16GB</b>	ISMS331-016GMH	ISMS331-016GTH	ISMS331-016GMH	ISMS331-016GTH
<b>32GB</b>	ISMS331-032GMH	ISMS331-032GTH	ISMS331-032GMH	ISMS331-032GTH
<b>64GB</b>	ISMS331-064GMH	ISMS331-064GTH	ISMS331-064GMH	ISMS331-064GTH
<b>128GB</b>	ISMS331-128GMH	ISMS331-128GTH	ISMS331-128GMH	ISMS331-128GTH

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