

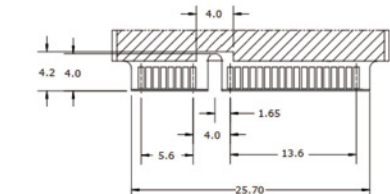
# Industrial Mini PCIe DOM & mSATA Series

## Co-layout design of Mini PCIe DOM and mSATA

For manufacturers or system integrators, the exciting benefit is they can have a circuit board with co-layout design of Mini PCIe DOM and mSATA. This feature allows users to enjoy wider applications by installing optional Mini PCIe DOM or mSATA in the same placement site.

## Mini PCIe DOM: For conventional main board, better performance than CF card

We have realized IPC customers need a steady supply for their design-in cases by using Mini PCIe DOM or CF card as boot drive or storage. However, Mini PCIe DOM obviously has better performance in read/write over 4 times than CF card. Boasting its easy use in plug-and-play and driverless (Windows XP and above) capabilities, the Mini PCIe DOM is no doubt the best choice for the conventional motherboard. In the following table, we recommend one cost-effective MLC model and one reliable SLC model.



mini PCIe DOM 1ME: Pin Directions

Pin33: PETp0

Pin31: PETn0

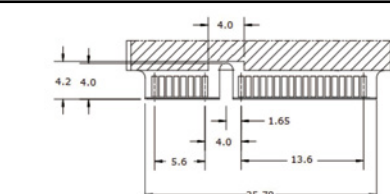
Pin23: PERn0

Pin25: PERp0

## mSATA: For space-limited main board, up to read/write speed of 470/220 MB/sec

Nowadays, more and more compact gadgets are designed to satisfy eager users. Smaller than a business card, the mSATA has become the must-have storage to deliver instant data transfer.

In the following table, we recommend five models categorized by the flash type and size.






mSATA 3SE: Pin Directions

Pin33: Rx+

Pin31: Rx-

Pin23: Tx+

Pin25: Tx-

Model Name	IPE-5300IM/WM	IPE-5330A3T/AW3T	IPE-5330A2M/AW2M	
Picture				
Key Features	1. Excellent data transfer speed 2. High quality SLC- based solution	1. SATA III solution for industrial field 2. High IOPS 3. DEVSLP supported	1. Excellent data transfer speed and IOPS 2. Budget- friendly MLC-based solution	
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	
Flash Type	SLC	TLC	MLC	
Capacity (GB)	2GB~32GB	30GB~960GB	32GB~512GB	
Sequential R/W	470/250	510/480	560/510	
Max.Power Consumption	1.2W (3.3V x 360mA)	1.7W (3.3V x 540 mA)	3W (3.3V x 935mA)	
Thermal Sensor	Wide temperature model only	Yes	Yes	
ATA Security	Yes	Yes	Yes	
S.M.A.R.T	Yes	Yes	Yes	
Dimensions (mm)	29.8 x 50.8 x 4.4	29.85 x 50.8 x 3.7	29.8 x 50.8 x 4.4	
Environment	Vibration: 20G@7~2000Hz, Shock: 1500G@0.5ms, Storage Temperature: -55°C ~ +95°C, MTBF: >3 million hours			
P/N	Standard (0°C~+70°C)	IPE-5300IM-1GB IPE-5300IM-2GB IPE-5300IM-4GB IPE-5300IM-8GB IPE-5300IM-16GB IPE-5300IM-32GB	IPE-5330A3T-30GB-R20 IPE-5330A3T-60GB-R20 IPE-5330A3T-120GB-R20 IPE-5330A3T-240GB-R20 IPE-5330A3T-480GB-R20 IPE-5330A3T-960GB-R20	IPE-5330A2M-32GB-R20 IPE-5330A2M-64GB-R20 IPE-5330A2M-128GB-R20 IPE-5330A2M-256GB-R20 IPE-5330A2M-512GB-R20
	Wide Temperature (-40°C~+85°C)	IPE-5300WM-1GB IPE-5300WM-2GB IPE-5300WM-4GB IPE-5300WM-8GB IPE-5300WM-16GB IPE-5300WM-32GB	IPE-5330AW3T-30GB-R20 IPE-5330AW3T-60GB-R20 IPE-5330AW3T-120GB-R20 IPE-5330AW3T-240GB-R20 IPE-5330AW3T-480GB-R20 IPE-5330AW3T-960GB-R20	IPE-5330AW2M-32GB-R20 IPE-5330AW2M-64GB-R20 IPE-5330AW2M-128GB-R20 IPE-5330AW2M-256GB-R20 IPE-5330AW2M-512GB-R20