

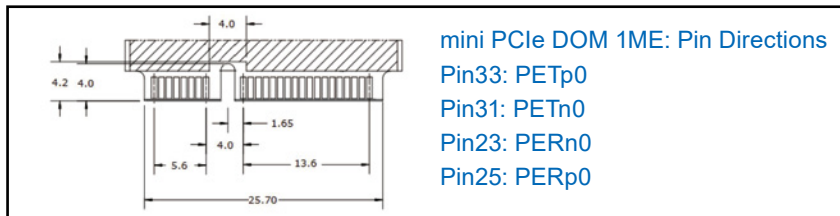
Industrial Mini PCIe DOM & mSATA Series

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

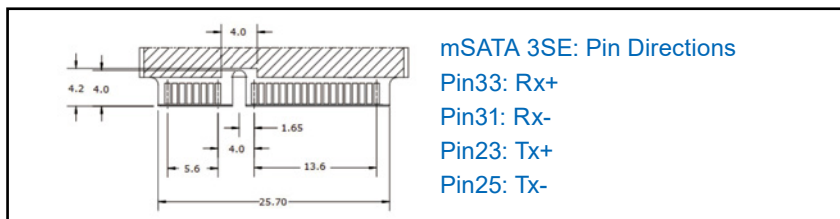
We have realized IPC customers need a steady supply for their design-in cases by using Mini PCIe DOM or CF card as boot drive or storage. However, Mini PCIe DOM obviously has better performance in read/write over 4 times than CF card. Boasting its easy use in plug-and-play and driverless (Windows XP 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.



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.



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