

## Industrial PS3109-S9 Micro SSD

Phison's PS3109 micro SSD delivers all the advantages of Flash Disk technology with the Serial ATA I/II/III interface in an embedded BGA form factor. Phison micro SSD have a small physical size and can offer wide range application for industrial grade and automotive grade. Its capacity could provide a wide range from 4GB to 128GB. Moreover, it can reach up to 500MB/s read as well as 185MB/s write high performance, and lower power consumption makes it an ideal storage choice for high performance demanding mobile and customized devices.

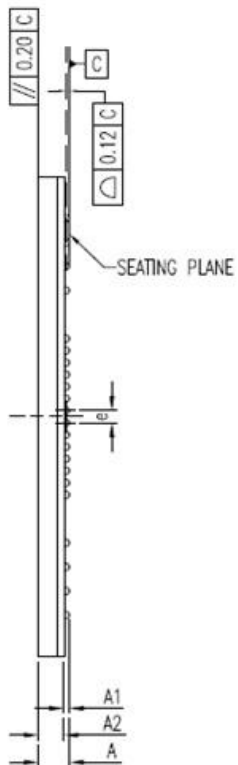
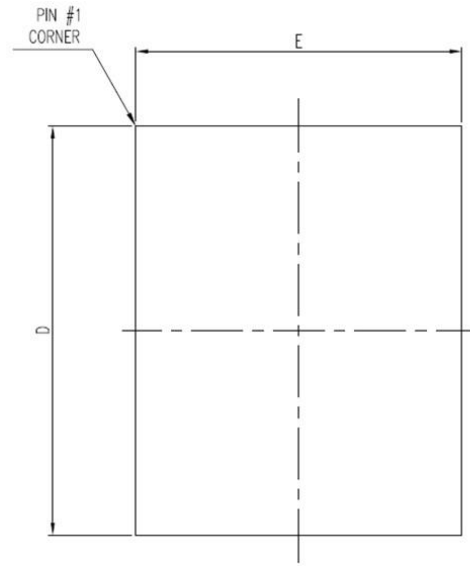
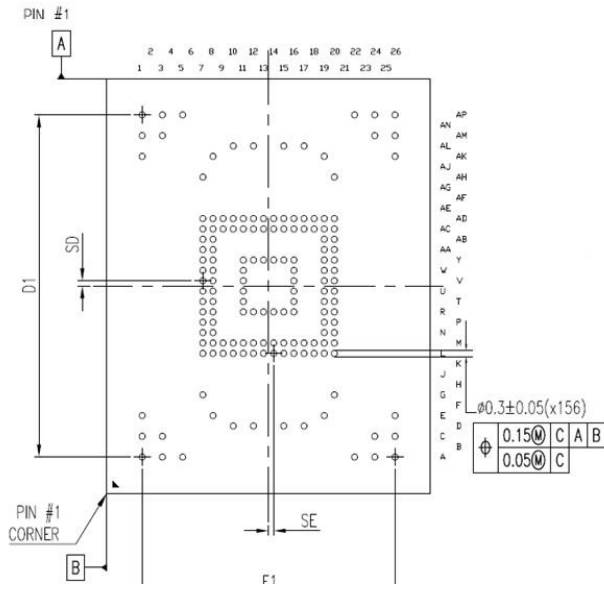


### Product Specification and Features

<b>Capacity</b>	4GB up to 128GB	
<b>SATA Interface</b>	SATA Revision 3.1 SATA 1.5Gbps, 3Gbps, and 6Gbps interface	
<b>Flash Interface and Support</b>	Flash type: 15nm MLC/PesudoSLC	
<b>Performance (Max)</b>	Read/Write: Up to 500/185 MB/s IOPS: Up to 31K/21K	
<b>Power Consumption</b>	Active mode: < 1,475mW Idle mode: < 265mW	
<b>TBW (Terabytes Written)</b>	317 TBW for 128GB MLC	
<b>MTBF</b>	≥ 2,000,000 hours	
<b>Advanced Technology</b>	Default: SmartRefresh™, SmartFlush™ Optional: GuaranteeFlush™	
<b>Specific Feature</b>	<b>Thermal Sensor</b>	Support
	<b>AES 256bit</b>	Support
	<b>HW Write protect</b>	Optional
	<b>Quick/ Destroy/ Military Erase</b>	Optional
	<b>pFail Protection Circuit</b>	NA
<b>Operating Temperature</b>	Diamond grade: -40°C ~ 85°C ; Gold grade: -25°C ~ 85°C	
<b>Environment</b>	High Temperature Storage Life Test: JESD22 A103 High Acceleration Stress Test: JESD 22-A110 Temperature cycling: JESD 22-A104	
<b>RoHS and Halogen Free compliant</b>	Support	

### Physical Dimension

❖ 16mm (L) x 20mm (W) x 1.4mm (H)



Symbol	Dimension In MM		
	MIN.	NOM.	MAX.
A	---	---	1.4
A1	0.15	---	---
A2	---	---	1.2
b	0.25	0.30	0.35
D	19.90	20.00	20.10
E	15.90	16.00	16.10
e	0.5 BSC		
JEDEC	MO-276		