

# PL1 Series

PCI Express® Gen3 x4

## Key Features

- AES-256 Encryption and TCG-Opal 2.01 Compliance
- Compliant with the NVMe™ Revision 1.4c
- Strong and Highly-efficient ECC
- Low Power Consumption



Model	PL1 Series
<b>Configuration</b>	
Capacity <sup>1</sup>	128GB~4096GB
pSLC Capacity	40GB~1280GB
Form Factor	M.2 2242/2280
<b>Performance</b>	
Sequential Read / Write <sup>2</sup> (Max.)	3,100 / 1,500 MB/s
4K Random Read / Write <sup>2</sup> (Max.)	165K / 280K IOPS
<b>Basic Attributes</b>	
Interface	PCIe® Gen3x4 NVMe™ 1.4c
KIOXIA NAND	112-layer 3D TLC / 162-layer 3D TLC
SoC	Realtek RTS5766DL
Encryption	AES 256-bit
<b>Reliability</b>	
Power on / off cycle	50,000
MTBF <sup>3</sup>	>3 million hours
<b>Features</b>	
TCG OPAL	Optional
pSLC	Optional
H/W Power Loss Protection	Optional
<b>Power Consumption</b>	
Typical (Max.)	PS0: 3.7W PS3: < 50 mW PS4: < 5 mW
<b>Environment</b>	
Non-Operating Temperature	-40°C to 85°C
Power-On Ready	500 ms

<sup>1</sup> Capacity clipping is included.

<sup>2</sup> Performance based on internal testing, it may vary on different platforms.

<sup>3</sup> MTBF - Mean Time Between Failures based on part stress analysis.

All information provided here is subject to change without prior notice.

## Ordering Information

Operating Temperature	Form Factor	Capacity (GB)	pSLC	PLP	Model Name*
Standard Temp (0°C to 70°C)	M.2 2242	128/ 256/ 512/ 1024/ 2048/ 4096	N	N	PL1-4DXXX
				Y	PL1-4DXXXP
		Y	PL1-4DXXXN		
	M.2 2280	128/ 256/ 512/ 1024/ 2048/ 4096	N	N	PL1-8DXXX
				Y	PL1-8DXXXP
		Y	PL1-8DXXXN		
Extended Temp (-25°C to 85°C)	M.2 2242	128/ 256/ 512/ 1024/ 2048/ 4096	N	N	PL1-4UXXX
				Y	PL1-4UXXXP
		Y	PL1-4UXXXN		
	M.2 2280	128/ 256/ 512/ 1024/ 2048/ 4096	N	N	PL1-8UXXX
				Y	PL1-8UXXXP
		Y	PL1-8UXXXN		
Industrial Temp (-40°C to 85°C)	M.2 2242	128/ 256/ 512/ 1024/ 2048/ 4096	N	N	PL1-4VXXX
				Y	PL1-4VXXXP
		Y	PL1-4VXXXN		
	M.2 2280	128/ 256/ 512/ 1024/ 2048/ 4096	N	N	PL1-8VXXX
				Y	PL1-8VXXXP
		Y	PL1-8VXXXN		

\*xxx = density (ex.256GB=256)



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www.ssstc.com

📍 12F, 392, Ruey Kuang Road, Neihu, Taipei 114, Taiwan R.O.C  
✉ www.ssstc.com/contact  
☎ +886-2-8798-2886  
📠 +886-2-5581-0868