

## PCIe® Gen3 NVMe CFexpress Card

The Global Leader in Specialized Storage and Memory Solutions





## **Key Features**

- Superior Read/Write performance
- Self-Encrypting Drive (SED) with AES 256-bit Encryption, TCG Opal 2.0\*
- DRAM-less configuration supporting Host Memory Buffer (HMB)\*
- Hardware Write Protect\*
- Anti-sulfuric resistor support\*
- \* May vary by product and project support

ATP N600Si/Sc CFexpress Type B memory cards support the NVMe<sup>™</sup> protocol and utilize the PCle<sup>®</sup> 3.0 x2\* interface. The N600Si/Sc surpasses standard configurations and delivers impressive high-speed sequential read/write speeds of up to 3500/3200 MB/s.

The N600Si/Sc features Host Memory Buffer (HMB) support to improve random read performance, optional TCG Opal 2.0 and hardware write-protect security, and software RAID 0, 1 compatibility.

To ensure optimal sustained performance, the N600Si/Sc Series CFexpress cards continuously monitor device temperature and enable firmware-based throttling that adjusts performance without drastic drops.

<sup>\*</sup>CFExpress spec 4.0 for PCIe Gen. 4 is under IP review and will be released Aug. 24, 2023.

## **Specifications**

	PCIe <sup>®</sup> Gen3 NVMe	CFexpress Card								
Product Line	N600Si	N600Sc								
Interface	PCIe G3 x2 3D TLC									
Flash Type										
Form Factor	CFexpress Type B									
Operating Temperature	-40°C to 85°C	0°C to 70°C								
Power Loss Protection Options	Firmware Based									
Optional SED Features	AES 256-bit Encryption, TCG Opal 2.0									
Capacity	128 GB to 1 TB									
	Performance									
Sequential Read (MB/s) up to	3,500									
Sequential Write (MB/s) up to	up to 3,200									
Random Reads IOPS up to	770,000									
Random Writes IOPS up to	750,000									
	Endurance and Reliability									
Endurance (TBW)¹ up to	1,000 TB									
Reliability MTBF @ 25°C										
Reliability Number of Insertions	Number of Insertions 10,000 minimum									
		Others								
Dimensions (mm)		29.6 x 38.5 x 3.8								
Certifications		CE, FCC, RoHS, UKCA								
Warranty		2 years								

Technologies & Add-On Services	S.M.A.R.T.	Firmware-based Power Loss Protection	AutoRefresh	Advanced Wear Leveling	Dynamic Data Refresh	End-to End Data Path Protection	Auto-Read Calibration	Secure Erase	P TCG Opal 2.0	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating	Complete Drive Test	Joint Validation
	0	0	0	0	0	0	0	<b>A</b>	<b>A</b>	0	<b>A</b>	<b>A</b>	0	<b>A</b>

- 1 Under highest Sequential write value. May vary by density, configuration and applications.
- $\blacktriangle$  : Customization option available on a project basis.

Product spec and its related information are subject to change without advance notice. Please refer to <a href="www.atpinc.com">www.atpinc.com</a> for latest information

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sales@atpinc.com