

## PCIe® Gen4 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™ protocol and utilize the PCle® 4.0 x2 interface. With two PCle 4.0 lanes, the N600Si/Sc surpasses standard configurations of other cards using the PCle 3.0 x2 interface. It delivers impressive high-speed sequential read/write speeds of up to 3500/3200 MB/s.

Built with 3D TLC flash (available with pSLC by project support), ATP CFexpress Type B memory cards offer big storage for IPC/embedded, automation, networking, test and measurement, and transportation systems as well as other applications that require excellent reliability, endurance, and performance.

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.

## **Specifications**

	PCIe® Gen4 NVMe CI	Fexpress Card								
Product Line	N600Si <sup>2</sup>	N600Sc <sup>2</sup>								
Interface	PCIe G4 x2									
Flash Type		3D TLC								
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	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	ity MTBF @ 25°C >2,000,000 hours									
Reliability 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 Services³	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.
- 2 Data subject to change.
- ▲: 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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**WE BUILD WITH YOU** 

TEL: +1-408-732-5000

sales@atpinc.com