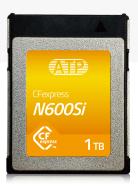


## PCIe® Gen4 NVMe CFexpress Card

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.



**PRODUCT FLYER** | PCIe® Gen4 NVMe CFexpress Card

## **Specifications**

	PCIe® Gen4 NVN	le CFexpress Card									
Superior											
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	>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	TCG Opal 2.0	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating	Complete Drive Test	Joint Validation
Superior	0	0	0	0	0	0	0	<b>A</b>	•	0	<b>A</b>	<b>A</b>	0	<b>A</b>

<sup>1</sup> Under highest Sequential write value. May vary by density, configuration and applications. 2 Data subject to change.

A: Customization option available on a project basis.