



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 PCIe® 4.0 x2 interface. With two PCIe 4.0 lanes, the N600Si/Sc surpasses standard configurations of other cards using the PCIe 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 CFexpress Card	
Product Line	Superior
	N600Si ² N600Sc ²
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 Services ³														
Superior	○	○	○	○	○	○	○	▲	▲	○	▲	▲	○	▲

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.