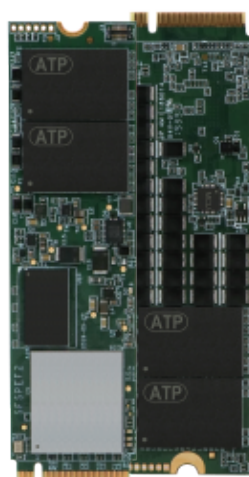


# ATP M.2 NVMe

## Embedded SSD

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



M.2 solid state modules based on the NVMe™ protocol leverage the blazing-fast PCI Express® (PCIe®) interface to deliver dramatic improvements in speed and performance to fulfill the increasing demand for responsiveness in enterprise storage systems and to support the growing data-hungry needs of today's enterprise. Delivering 32 Gb/s bandwidth on a PCIe 3.0 x4 slot (8 Gb/s per lane), ATP NVMe SSDs outperform Serial ATA 6 Gb/s SSDs with 4-6X faster access, over 3X lower latency, and higher Input/Output per Second (IOPS). ATP NVMe SSDs with industrial operating temperature rating deliver stable performance even in extreme temperatures ranging from -40°C to 85°C, while Dynamic Thermal Throttling automatically adjusts the speed to maintain cooler operation under intense and heavy workloads.

Adopting NVMe 1.3 specifications and integrating 3D NAND TLC technology, ATP's M.2 2280 NVMe modules offer up to 1.92TB of memory capacity and deliver boosted performance with sequential read up to 3,280 MB/s, sequential write up to 3,050 MB/s, and random IOPS up to 211,200.

Designed to move past the limitations of mechanical drives, NVMe was specifically built from the ground up for faster, more efficient access to storage devices with non-volatile memory such as current NAND flash solutions and future non-volatile memory technologies. These SSDs can deliver fast, reliable and durable performance for any demanding application.

### Key Features

- Superior Read/Write performance
- LDPC & RAID Data Recovery for error correction
- Dynamic Thermal Throttling
- Global wear leveling
- TRIM function support
- End-to-End Data Protection
- MCU-based Power Protector 4  
(May vary by product and project support.)

### Applications

- Networking
- Thin Clients
- Enterprise Storage Systems



## Specifications

Product Name		M.2 NVMe	
		2280-D2-M	
Product Line		Superior	
Naming		N600Si	N600Sc
Flash Type		I-Temp 3D TLC	C-Temp 3D TLC
Density		120 GB to 1920 GB	
Performance	Sequential Read up to (MB/s)	3,280	
	Sequential Write up to (MB/s)	3,050	
	Random Read IOPS (4K, QD32)	211,200	
Interface		PCIe Gen3 Interface, x4 Lanes	
Operating Temperature		-40°C to 85°C	0°C to 70°C
Endurance	TBW* (max.)	5,120 TB	
	DWPD* (max.)	3.7	
Reliability MTBF @ 25°C		>2,000,000 hours	
Dimensions: L x W x H (mm)		80.0 x 22.0 x 3.5	

\* Under highest Sequential write value. May vary by density, configuration and applications.

Technologies & Add-On Services		S.M.A.R.T.	TCG Opal 2.0	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Secure Erase	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating	End-to-End Data Protection	PowerProtector
Product Line	Superior	●	Δ	●	●	●	Δ	●	Δ	Δ	●	●

Δ: Customization option available on a project basis.

To learn more about this product, contact your ATP Representative.

### ATP Global Footprint

#### ATP TAIWAN(HQ)

TEL: +886-2-2659-6368  
FAX: +886-2-2659-4982  
sales-apac@atpinc.com

#### ATP USA

TEL: +1-408-732-5000  
FAX: +1-408-732-5055  
sales@atpinc.com

#### ATP EUROPE

TEL: +49-89-374-9999-0  
FAX: +49-89-374-9999-29  
sales-europe@atpinc.com

#### ATP JAPAN

TEL: +81-3-6260-0797  
FAX: +81-3-6260-0798  
sales-japan@atpinc.com

#### ATP CHINA

TEL: +86-21-5080-2220  
FAX: +86-21-9687-0000-026  
sales@cn.atpinc.com