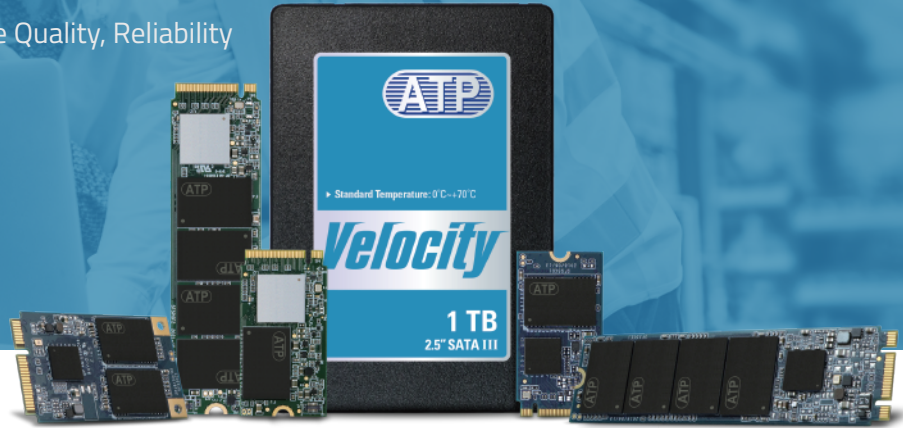




ATP 100+ Layer Prime Die 3D NAND SSD Built for Industrial Applications

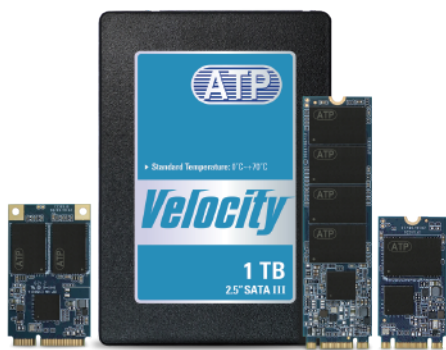
Value Line with 3D TLC NAND Offers Prime Quality, Reliability and Endurance at Lower Cost per GB



N600Vc Series M.2 2242/2280 NVMe Gen3 and A600Vc Series SATA 2.5", M.2 2242/2280, and mSATA Value Line solid state drives (SSDs) are built with prime die triple-level cell (TLC) NAND on leading 100-layer plus 3D architecture. The new line is geared toward industrial/embedded applications requiring reliable performance, wide range of capacity options, and long-term supply commitment at friendly price points.

The Value Line is tailored for read-intensive applications, such as web server, box pc, kiosk/point-of-sale systems (POS), and other industrial/embedded boot drive requiring speed and reliability.

Key Features



A600Vc

- SATA III 6 Gb/s
- Available in M.2 2280/2242, 2.5" & mSATA form factors
- 32 GB to 1 TB capacity offering*
- Firmware-based Power Loss Protection with Level 3 data-at-rest protection
- Power-efficient DRAM-less design

*Different NAND die may be utilized for lower-capacity drives



N600Vc

- PCIe Gen3x4, NVMe 1.3
- Available in M.2 2280/2242 form factors
- 120 GB to 960 GB capacity offering
- Firmware-based Power Loss Protection with Level 3 data-at-rest protection
- Host Memory Buffer (HMB) support
- End-to-end data path protection

Why ATP A600Vc and N600Vc Value Line SSDs?

EXTREME RELIABILITY

with Prime NAND Die + ATP IC Sorting test

DRAM-less design

POWER EFFICIENT

SUPPLY LONGEVITY

with multi-year support

Up to

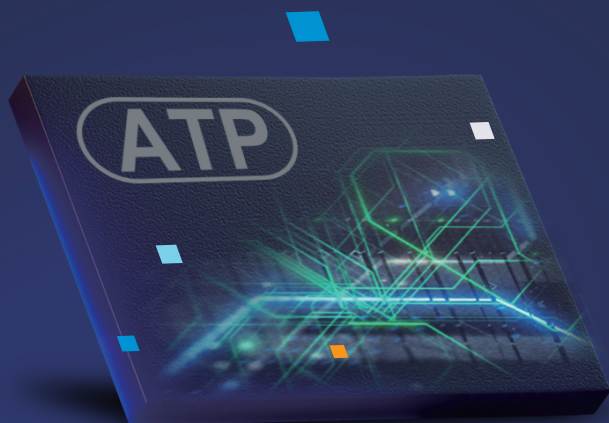
-20%

Lower cost per GB
than previous gen. NAND die

Built for

READ-INTENSIVE APPLICATIONS

Server/Networking, IPC, kiosk/POS, booting



Product Specifications

| Product Line | Value | | | | | |
|--|----------------------------------|-------------------|------------------|---------------|---------------|--------------------|
| | N600Vc | | A600Vc | | | |
| Interface | PCIe G3 x4 | | SATA III 6 Gb/s | | | |
| Flash Type | 3D TLC | | | | | |
| Form Factor | M.2 2280 S2-M | M.2 2242 D5-M | 2.5" | 2280 S2-B-M | 2242 D2-B-M | MO-300A |
| Operating Temperature (Tcase) ¹ | 0°C to 70°C | | | | | |
| Power Loss Protection Options | Firmware Based | | | | | |
| Capacity | 120 GB to 960 GB | | 32 GB to 1 TB | 32 GB to 1 TB | | 32 GB to 1 TB |
| Performance | | | | | | |
| Sequential Read (MB/s) up to | 2,600 | | 560 | 560 | | 560 |
| Sequential Write (MB/s) up to | 1,870 | | 525 | 525 | | 525 |
| Random Reads IOPS (4K, QD32) up to | 184,300 | | 72,000 | 72,000 | 70,500 | 72,000 |
| Random Writes IOPS (4K, QD32) up to | 145,900 | | 85,000 | 85,000 | 81,000 | 85,000 |
| Endurance and Reliability | | | | | | |
| Endurance (TBW) ² up to | 1,536 TB | | 2,792 TB | 2,792 TB | | 2,792 TB |
| Reliability MTBF @ 25°C | 2,000,000 hours | | >2,000,000 hours | | | |
| Others | | | | | | |
| Dimensions: L x W x H (mm) | 80.0 x 22.0 x 2.2 | 42.0 x 22.0 x 3.6 | 100 x 69.9 x 7 | 80 x 22 x 2.2 | 42 x 22 x 3.5 | 50.8 x 29.85 x 3.5 |
| Certifications | CE, FCC, BSMI, UKCA, RoHS, REACH | | | | | |
| Warranty | 2 years | | | | | |

¹ Case Temperature, the composite temperature as indicated by SMART temperature attributes.

² Under highest Sequential write value. May vary by density, configuration and applications.

Order Information

| Hot Items Ordering Information | | | | | |
|--------------------------------|-----------------------|------------------------------------|------------------------------------|------------------|------------------|
| Product Line | Capacity ₁ | Operating Temperature ₂ | Power Loss Protection ₃ | SED ₄ | P/N |
| N600Vc (M.2 NVMe 2280) | 120GB | 0°C to 70°C | Firmware Based | - | AF120GSTJA-DBCXX |
| | 240GB | 0°C to 70°C | Firmware Based | - | AF240GSTJA-DBCXX |
| | 480GB | 0°C to 70°C | Firmware Based | - | AF480GSTJA-DBCXX |
| N600Vc (M.2 NVMe 2242) | 120GB | 0°C to 70°C | Firmware Based | - | AF120GSTJC-DBBXX |
| | 240GB | 0°C to 70°C | Firmware Based | - | AF240GSTJC-DBBXX |
| | 480GB | 0°C to 70°C | Firmware Based | - | AF480GSTJC-DBBXX |
| | 960GB | 0°C to 70°C | Firmware Based | - | AF960GSTJC-DBBXX |
| A600Vc (M.2 SATA 2280) | 32GB | 0°C to 70°C | Firmware Based | - | AF32GSTIC-2BAXX |
| | 64GB | 0°C to 70°C | Firmware Based | - | AF64GSTIC-2BAXX |
| | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTIC-2BAXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTIC-2BAXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTIC-2BAXX |
| | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTIC-2BBXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTIC-2BBXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTIC-2BBXX |
| A600Vc (M.2 SATA 2242) | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTIA-2BBXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTIA-2BBXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTIA-2BBXX |
| | 1TB | 0°C to 70°C | Firmware Based | - | AF1TSTIA-2BBXX |
| A600Vc (mSATA) | 32GB | 0°C to 70°C | Firmware Based | - | AF32GSTHI-2BAXX |
| | 64GB | 0°C to 70°C | Firmware Based | - | AF64GSTHI-2BAXX |
| | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTHI-2BAXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTHI-2BAXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTHI-2BAXX |
| | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTHI-2BBXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTHI-2BBXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTHI-2BBXX |
| A600Vc (2.5") | 32GB | 0°C to 70°C | Firmware Based | - | AF32GSTCJ-2BAXX |
| | 64GB | 0°C to 70°C | Firmware Based | - | AF64GSTCJ-2BAXX |
| | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTCJ-2BAXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTCJ-2BAXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTCJ-2BAXX |
| | 128GB | 0°C to 70°C | Firmware Based | - | AF128GSTCJ-2BBXX |
| | 256GB | 0°C to 70°C | Firmware Based | - | AF256GSTCJ-2BBXX |
| | 512GB | 0°C to 70°C | Firmware Based | - | AF512GSTCJ-2BBXX |
| 1TB | 0°C to 70°C | Firmware Based | - | AF1TSTCJ-2BBXX | |

¹ Amount of actual usable storage that can be utilized.

² Refers to Case Temperature range during device operation, as indicated by SMART temperature attributes.

³ Hardware + Firmware-based power loss protection design with Level 4 (data-in-flight) protection; Firmware-based power loss protection design with Level 1 (data-at-rest) protection.

⁴ Allows data written to and read from the SSD to be constantly and automatically encrypted and decrypted. Conforms to TCG Opal 2.0 and uses AES 256-bit HW encryption.

Product spec and its related information are subject to change without advance notice.

Please refer to www.atpinc.com for latest information

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