

# ATP 2.5" SATA SSDs

## Industrial Grade

ATP offers various 2.5" SSDs in SLC, MLC and SLC mode types with SATAIII interfaces. ATP SSDs are designed for different applications, including industrial computers, data center, POS, networking, thin clients and other industrial applications.



ATP's shock/vibration-resistant industrial 2.5" SSDs are encased in durable enclosures for outstanding performance in challenging environments. The convenient 2.5" form factor and SATA III interface allow easy integration into SATA-based systems, while unique ATP technologies ensure extended endurance for long years of dependable use.

ATP 2.5" SSDs feature PowerProtector 4 technology, which combines hardware and firmware solutions to ensure that data is preserved and protected during a sudden power failure. The MCU design also protects the storage device from damage by allowing the power loss protection (PLP) to intelligently manage power challenges such as inrush current, input overvoltage, incorrect cache flushing and more.

ATP's 2.5" SSDs comply with US National Security Agency (NSA) and MIL-STD-810G standards. They support the S.M.A.R.T. ATA feature set and Advanced Wear Leveling algorithm for enhanced endurance.

### Key Features

- Global wear leveling
- TRIM function support
- Static Data Refresh and Idle Clean F/W algorithm
- Firmware live update
- MCU-based Power Protector 4 (May vary by product and project support.)
- Write protect disabled/enabled
- NSA-compliant Secure Erase

### Applications

- IPC
- Blades
- AdvancedTCA
- Single board computers
- Surveillance & security
- Networking appliance



## Specifications

| Product Name               |                               | 2.5" SSD           |                        |                    |             |
|----------------------------|-------------------------------|--------------------|------------------------|--------------------|-------------|
| Product Line               |                               | Premium            |                        | Superior           |             |
| Naming                     |                               | A800Pi             | A700Pi                 | A600Si             | A600Sc      |
| Flash Type                 |                               | SLC                | iTemp pseudo SLC       | iTemp MLC          | MLC         |
| Density                    |                               | 8 GB to 256 GB     | 60 GB to 480 GB        | 64 GB              |             |
| Performance                | Sequential Read up to (MB/s)  | 520                | 540                    | 440                |             |
|                            | Sequential Write up to (MB/s) | 420                | 500                    | 80                 |             |
|                            | Random Read IOPS up to        | 76,000             | 100,000                | 38,400             |             |
| Interface                  |                               | SATA III 6 Gb/s    |                        |                    |             |
| Operating Temperature      |                               | -40°C to 85°C      |                        | -40°C to 85°C      | 0°C to 70°C |
| Endurance                  | TBW* (max.)                   | 21,333 TB          | 18,000 TB              | 145.5 TB           | 174.6 TB    |
|                            | DWPD* (max.)                  | 77.9               | 20                     | 3.1                | 3.8         |
| Reliability                | MTBF @ 25°C                   | >2,000,000 hours   |                        |                    |             |
|                            | Number of Insertions          | 10,000 minimum     |                        |                    |             |
| Dimensions: L x W x H (mm) |                               | 100.0 x 69.9 x 9.2 | 100.0 x 69.9 x 7 / 9.2 | 100.0 x 69.9 x 9.2 |             |

| Product Name               |                               | 2.5" SSD               |             |                    |
|----------------------------|-------------------------------|------------------------|-------------|--------------------|
| Product Line               |                               | Superior               |             | Value              |
| Naming                     |                               | A600Si                 | A600Sc      | A600Vc             |
| Flash Type                 |                               | iTemp 3D TLC           | 3D TLC      | 3D TLC             |
| Density                    |                               | 120 GB to 1920 GB      |             | 32 GB to 512 GB    |
| Performance                | Sequential Read up to (MB/s)  | 560                    |             | 560                |
|                            | Sequential Write up to (MB/s) | 480                    |             | 440                |
|                            | Random Read IOPS up to        | 100,000                |             | 72,000             |
| Interface                  |                               | SATA III 6 Gb/s        |             |                    |
| Operating Temperature      |                               | -40°C to 85°C          | 0°C to 70°C | 0°C to 70°C        |
| Endurance                  | TBW* (max.)                   | 5,585 TB               |             | 590.8 TB           |
|                            | DWPD* (max.)                  | 4.0                    |             | 1.6                |
| Reliability                | MTBF @ 25°C                   | >2,000,000 hours       |             |                    |
|                            | Number of Insertions          | 10,000 minimum         |             |                    |
| Dimensions: L x W x H (mm) |                               | 100.0 x 69.9 x 7 / 9.2 |             | 100.0 x 69.9 x 7.0 |

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

| Technologies & Add-On Services |          | S.M.A.R.T. | PowerProtect | Advanced Wear Leveling | AutoRefresh | Dynamic Data Refresh | Secure Erase | Industrial Temperature | Anti-Sulfur Resistors | Conformal Coating |
|--------------------------------|----------|------------|--------------|------------------------|-------------|----------------------|--------------|------------------------|-----------------------|-------------------|
| Product Line                   | Premium  | ●          | ●            | ●                      | ●           | ●                    | ●            | ●                      | Δ                     | Δ                 |
|                                | Superior | ●          | ●            | ●                      | ●           | ●                    | ●            | Δ                      | Δ                     | Δ                 |
|                                | Value    | ●          |              | ●                      | ●           | ●                    |              |                        |                       |                   |

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