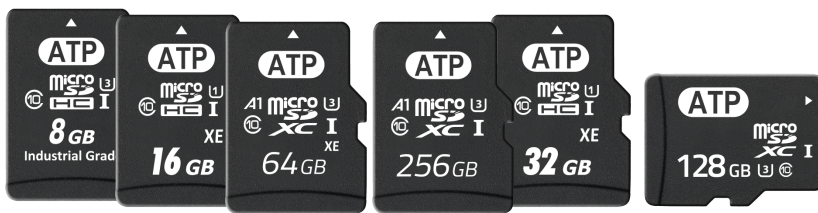




ATP microSD/microSDHC/microSDXC Card Industrial Grade

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



Key Features

- SD Life Monitor
- Advanced Wear Leveling
- SiP (System in Package)
- AutoRefresh technology
- Dynamic Data Refresh
- Power failure protection
- Industrial temperature
- Joint Validation
- 100% MP Level Test

These tiny yet feature-rich and reliable removable storage solutions are used extensively in data logging, navigation and surveillance systems, in-vehicle infotainment (IVI), drive recorders, and other demanding applications.

To ensure data integrity, ATP microSD cards feature AutoRefresh read disturb protection and Dynamic Data Refresh data retention management technologies to prevent errors in frequently read and seldom-accessed areas. The Sudden Power-Off Recovery (SPOR) mechanism recovers valid data during voltage fluctuations or power loss events.

ATP microSD cards in 3D triple level cell (TLC) NAND flash come in capacities up to 256 GB. They feature 4KB page management and SLC caching algorithm, which allows 1/2 random access time and low latency compared with traditional solutions. These cards meet Android A1 application performance (SDA spec) and consume less power, making them suitable for small handheld devices with limited battery life.

Applications

- Industrial PC
- Medical devices
- Automation
- Automotive IVI systems
- Test and Measurement
- Surveillance systems
- Drive recorders
- Navigations
- Network cameras
- Mobile/Handheld computers

| Technologies & Add-On Services | Life Monitor | Sudden Power-Off Recovery | Advanced Wear Leveling | AutoRefresh | Dynamic Data Refresh | Secure Erase | Industrial Temperature | System in Package | Complete Drive Test | Joint Validation |
|--------------------------------|--------------|---------------------------|------------------------|-------------|----------------------|--------------|------------------------|-------------------|---------------------|------------------|
| Premium | Δ | ● | ● | ● | Δ | ● | ● | ● | ● | Δ |
| Superior | Δ | ● | ● | ● | ● | ● | Δ | ● | ● | Δ |

Δ: Customization option available on a project basis.





Specifications

| Product Name | | microSD/microSDHC/microSDXC | | | | |
|----------------------------|-------------------------------|--|------------------|---------------|---------------|---------------|
| Product Line | | Premium | | | Superior | |
| Naming | | S800Pi | S700Pi | S700Pi | S700Sc | S700Sc |
| Flash Type | | SLC | Pseudo SLC | Pseudo SLC | Pseudo SLC | Pseudo SLC |
| Density | | 512 MB to 8 GB | 4 GB to 16 GB | 8 GB to 64 GB | 4 GB to 16 GB | 8 GB to 64 GB |
| Performance | Sequential Read up to (MB/s) | 80 | 76 | 98 | 76 | 98 |
| | Sequential Write up to (MB/s) | 39 | 54 | 62 | 54 | 62 |
| Interface | | 512 MB~2 GB, HS mode 4 GB~8 GB, UHS-I | UHS-I | | | |
| Operating Temperature | | -40°C to 85°C | | | -25°C to 85°C | |
| Reliability | TBW* (max.) | 192 TB | 256 TB | 320 TB | 256 TB | 320 TB |
| | MTBF @ 25°C | >5,000,000 hours | >3,000,000 hours | | | |
| | Number of Insertions | 20,000 (SDA spec minimum 10,000) | | | | |
| Dimensions: L x W x H (mm) | | 15.0 x 11.0 x 1.0 | | | | |

| Product Name | | microSD/microSDHC/microSDXC | | | |
|----------------------------|-------------------------------|----------------------------------|---------------|-----------------|-----------------|
| Product Line | | Superior | | | |
| Naming | | S600Si | S600Sc | S600Sia | S600Sc |
| Flash Type | | MLC/TLC | MLC | TLC | TLC |
| Density | | 8 GB to 256 GB | 8 GB to 32 GB | 32 GB to 256 GB | 32 GB to 256 GB |
| Performance | Sequential Read up to (MB/s) | 98 | 68 | 98 | 98 |
| | Sequential Write up to (MB/s) | 61 | 24 | 61 | 61 |
| Interface | | UHS-I | | | |
| Operating Temperature | | -40°C to 85°C | -25°C to 85°C | -40°C to 85°C | -25°C to 85°C |
| Reliability | TBW* (max.) | 154 TB | 39 TB | 154 TB | 154 TB |
| | MTBF @ 25°C | >2,000,000 hours | | | |
| | Number of Insertions | 20,000 (SDA spec minimum 10,000) | | | |
| Dimensions: L x W x H (mm) | | 15.0 x 11.0 x 1.0 | | | |

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

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