



ATP SD/SDHC/SDXC 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

Applications

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

ATP SD cards are the ideal storage format for industrial and automotive applications as they can be conveniently inserted into and easily removed from small host devices for convenient data transfer and storage expansion.

Made to perform dependably under rigorous conditions, ATP SD cards are designed with extensive longevity, which is typically required in industrial applications such as automation, networking, health care and more.

ATP SD cards also deliver the quality, durability and reliability to meet the requirements of major automotive OEM/Tier 1 suppliers, system developers and service providers for higher levels of data accuracy, consistency and integrity in applications such as maps/navigation systems, in-vehicle infotainment (IVI), Advanced Driver Assistance Systems (ADAS), and other data-intensive applications. These solutions can withstand extreme temperatures, dust and shock/vibration, and maintain data integrity under power cycling or sudden power-off events.

Now available in 3D triple-level cell (TLC) NAND flash with A1 Performance Class rating, ATP SD cards undergo endurance, data retention and wide temperature tests and are certified according to international, automotive-specific and temperature-related standards.

| 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 |
|--------------------------------|----------|--------------|---------------------------|------------------------|-------------|----------------------|--------------|------------------------|-------------------|---------------------|------------------|
| Product Line | Premium | Δ | ● | ● | ● | Δ | ● | ● | ● | ● | Δ |
| | Superior | Δ | ● | ● | ● | ● | ● | Δ | ● | ● | Δ |
| | Value | | | ● | | | | | ● | | |

Δ: Customization option available on a project basis.



Specifications

| Product Name | | SD/SDHC/SDXC | | | | |
|----------------------------|-------------------------------|--|------------------|-------------------|-----------------|---------------|
| Product Line | | Premium | | | Superior | |
| Naming | | S800Pi | S700Pi | S700Pi | S700Sc | S700Sc |
| Flash Type | | SLC | iTemp SLC mode | iTemp 3D SLC mode | SLC mode | 3D SLC mode |
| Density | | 512 MB to 8 GB | 4 GB to 8 GB | 8 GB to 32 GB | 4 GB to 8 GB | 8 GB to 32 GB |
| Performance | Sequential Read up to (MB/s) | 70 | 76 | 98 | 76 | 98 |
| | Sequential Write up to (MB/s) | 39 | 50 | 60 | 50 | 60 |
| Interface | | 512 MB ~ 2 GB, HS mode 4 GB ~ 8 GB, UHS-I | UHS-I | UHS-I | UHS-I | UHS-I |
| Operating Temperature | | -40 °C to 85 °C | | | -25 °C to 85 °C | |
| Reliability | TBW* (max.) | 192 TB | 128 TB | 320 TB | 128 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) | | 32.0 x 24.0 x 2.1 | | | | |

| Product Name | | SD/SDHC/SDXC | | | | |
|----------------------------|-------------------------------|----------------------------------|------------------|-----------------|-----------------|------------------|
| Product Line | | Superior | | | | Value |
| Naming | | S600Si | S600Sc | S600Sia | S600Sc | S600Vc |
| Flash Type | | iTemp MLC / 3D TLC | MLC | iTemp 3D TLC | 3D TLC | 3D TLC |
| Density | | 8 GB to 256 GB** | 8 GB to 128 GB** | 32 GB to 256 GB | 32 GB to 256 GB | 32 GB to 128 GB |
| Performance | Sequential Read up to (MB/s) | 98 | 96 | 98 | 98 | 100 |
| | Sequential Write up to (MB/s) | 64 | 61 | 64 | 64 | 78 |
| 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 | -25 °C to 85 °C |
| Reliability | TBW* (max.) | 154 TB | 154 TB | 154 TB | 154 TB | 36 TB |
| | MTBF @ 25 °C | >2,000,000 hours | | | | >1,000,000 hours |
| | Number of Insertions | 20,000 (SDA spec minimum 10,000) | | | | |
| Dimensions: L x W x H (mm) | | 32.0 x 24.0 x 2.1 | | | | |

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

** By project support.

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

ATP Global Footprint

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