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# ATP Industrial Grade SD/SDHC/SDXC

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



ATP Industrial Grade SD/SDHC/SDXC cards are designed for application in demanding industries, such as automotive, healthcare, and aviation, where critical data requires the highest level of reliability, durability, and data integrity. They are also suitable for removable application and small footprint mechanism devices.

ATP SD cards with read disturb protector-AutoRefresh technology and Autoscan features are best suited for read intensive applications. For instance in the automotive industry, ATP SD cards have been recognized by worldwide major tier 1 Auto Infotainment Suppliers and tier 2 telematics electronic vehicle system developers/service providers for their map system, IVI (in-vehicle-infotainment), and OS boot-up. On the other hand, ATP SD cards with SLC mode and Power cycling solution are ideal for write intensive applications. Such applications include data logging and storage of hospital medical devices and surveillance systems.

Moreover, with ATP's SIP (System-In-Packaging) manufacturing process, the operating/ storage temperature of ATP Industrial Grade SD cards is -40 to 85 degrees Celsius. All ATP Industrial Grade products go through multi data pattern burn in test. This is to screen for early fallout occasionally seen in any semiconductor technology.

## Key Features

- SLC (Single-Level-Cell) NAND flash and MLC (Multi-Level Cell / 2-bit per Cell) NAND Flash
- Advanced Wear Leveling algorithm
- Bad Block Management
- Read Disturb Protector - AutoRefresh to ensure data integrity during read operation
- IP67 waterproof/Dustproof test (IEC 60529)
- Highly reliable and pass environmental test (Bend/Torque/Salt Spray/Solar radiation)
- ESD resistance
- Life Monitor (Note : The compatibility and support of Life Monitor may vary on different platform/operation system)

## Applications

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



## Specifications

| Product Name           | SD/SDHC/SDXC                          |                                 |
|------------------------|---------------------------------------|---------------------------------|
| Flash Type             | SLC                                   | MLC                             |
| Density                | 512MB to 32GB                         | 8GB to 128GB                    |
| Performance            | Sequential Read up to 20MB/s          | Sequential Read up to 87.2MB/s  |
|                        | Sequential Write up to 18MB/s         | Sequential Write up to 58.9MB/s |
| Interface              | SD2.0                                 | SD3.0 UHS Mode                  |
| Operation Temperature  | -40°C to +85°C                        | -25°C to +85°C                  |
| Reliability            | Advanced Static/Dynamic Wear-Leveling |                                 |
|                        | TBW**(max.): 384TB                    | TBW**(max.): 38.4TB             |
|                        | MTBF@25°C:>5,000,000 hours            | MTBF@25°C:>2,000,000 hours      |
|                        | Number of Insertions: 10,000 minimum  |                                 |
| Dimensions: LxWxH (mm) | 32.0 x 24.0 x 2.1                     |                                 |

\*\* All TBW data listed are under highest random write value in each product line. The TBW data are subject to change by density, configuration and customers' applications.

## Ordering Information

| Density | SD / SDHC (SLC) | SDHC / SDXC (MLC)             |
|---------|-----------------|-------------------------------|
| 512MB   | AF512SDI-OEM    | -                             |
| 1GB     | AF1GSDI-OEM     | -                             |
| 2GB     | AF2GSDI-OEM     | -                             |
| 4GB     | AF4GSDI-OEM     | -                             |
| 8GB     | AF8GSDI-OEM     | AF8GSD3-OEM                   |
| 16GB    | AF16GSDI-OEM    | AF16GSD3-OEM<br>AF16GSD3-OEM* |
| 32GB    | AF32GSDI-OEM    | AF32GSD3-OEM                  |
| 64GB    | -               | AF64GSD3-OEM*                 |
| 128GB   | -               | AF128GSD3-OEM*                |

\* New product, contact ATP sales

### 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: +81-3-6206-8097  
FAX: +81-3-6206-8098  
sales-japan@atpinc.com

### ATP CHINA

TEL: +86-21-5080-2220  
FAX: +86-21-5080-2219  
sales@cn.atpinc.com

