

## 阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

## Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .



# 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 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

