ATP Industrial Grade microSD/microSDHC Card
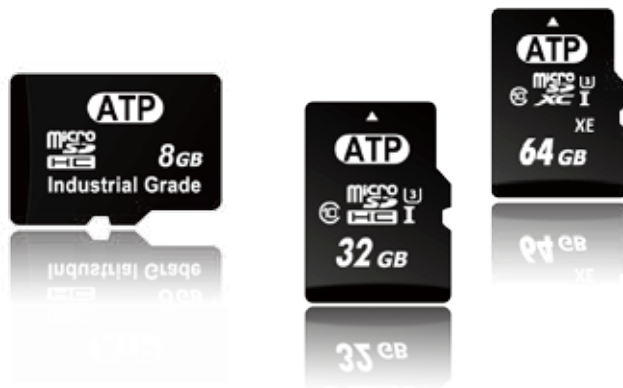
Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications

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
- IP57 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

ATP Industrial microSD/microSDHC cards are designed for demanding applications, such as navigation system, digital camera, driving recorder, handheld devices, multi- media player and systems.

ATP microSD cards with read disturb protector- AutoRefresh technology and Autoscan features are best suited for read intensive applications. For instance ATP microSD cards have been tested and qualified by major handheld companies such as Motorola and Honeywell. On the other hand, ATP microSD 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 microSD 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.

Specifications

Product Name	microSD/microSDHC/microSDXC				
Product Line	Premium		Superior		
Naming	S800p	S700p	S700c	S600i	S600c
Flash Type	SLC	iTemp SLC mode	SLC mode	iTemp MLC	MLC
Density	512 MB to 8 GB	4 GB to 16 GB	4 GB to 32 GB	8 GB to 32 GB	8 GB to 64 GB
Performance — Sequential Read up to (MB/s)	82	88	96	79	96
Performance — Sequential Write up to (MB/s)	39	78	85	75	81
Interface	512 MB~2 GB, HS mode 4 GB~8 GB, UHS-I	UHS-I	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.)	192 TB	128 TB	512 TB	38 TB	153 TB
Reliability — MTBF @ 25°C	>5,000,000 hours	>3,000,000 hours	>3,000,000 hours	>2,000,000 hours	
Reliability — 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				

More product information ⟫