



# ATP UHS-I microSDHC, A1, U1 Memory Card

## Product Summary/Features

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- Capacities:
  - 8GB, 16GB
- Form Factors:
  - microSD
- SDR104 Speed Mode performance:
  - Sequential Read: Up to 97 MB/s
  - Sequential Write: Up to 36 MB/s
  - Random 4K Read: Up to 1.6 MB/s
  - Random 4K Write: Up to 5 MB/s
- Compliant with SD Specification version 3.01
- SIP (System In Package) process
- Support
  - BCH ECC engine
  - CPRM
  - Read Disturb Protector – AutoRefresh technology to ensure data integrity especially in frequent read operations.
  - Enhanced endurance by Advanced Static/Dynamic Wear-Leveling
- Power Management
  - Support dual voltage 3.3V and 1.8V I/O
- Enhanced F/W algorithm to minimize the risk of a sudden power-off
- Temperature, Case (T<sub>c</sub>)
  - Operating:
    - C-Temp.: -25°C to 85°
    - I-Temp.: -40°C to 85°C
  - Non-Operating: -55°C to 90°C
- Reliability
  - MTBF: 3M hours
  - Data Retention (@55°C): 5 Years (with 10% P/E Cycles)
  - Waterproof: IPX7
  - Dust proof: IP5X
  - ESD resistant: IEC 61000-4-2
- Endurance (TBW in Sequential Write)
  - 8GB: 24 TB
  - 16GB: 48 TB
- Certifications, Declarations
  - CE
  - FCC
  - UKCA
- Product Ecological Compliance
  - RoHS
  - REACH
- Customized Service
  - Adjustable CID registers
  - Logo printing (by project)