

# microSD Card

## IDU3A



The ADATA IDU3A industrial-grade microSD card implements MLC Flash and provides P/E cycles up to 3K rating. What's more, it has the advantages of being highly reliable and compatible as well as power efficient. The IDU3A is ideally suited for applications such as industrial automation, surveillance systems, and point of sale systems. For excellent durability, the IDU3A is built to withstand wide-temperature ranges (-40°C to 85°C). The IDU3A also supports wear leveling technologies, and features ADATA's proprietary A+ SLC technology for a long product lifespan.

### Features

- 3K P/E Cycles – improved endurance and reliability
- Wide temperature support: -40°C to 85°C
- BCH ECC (error correction) technology
- Supports Wear Leveling and S.M.A.R.T. Monitor
- Suitable for automation, surveillance, healthcare, POS, in-vehicle, and handheld devices

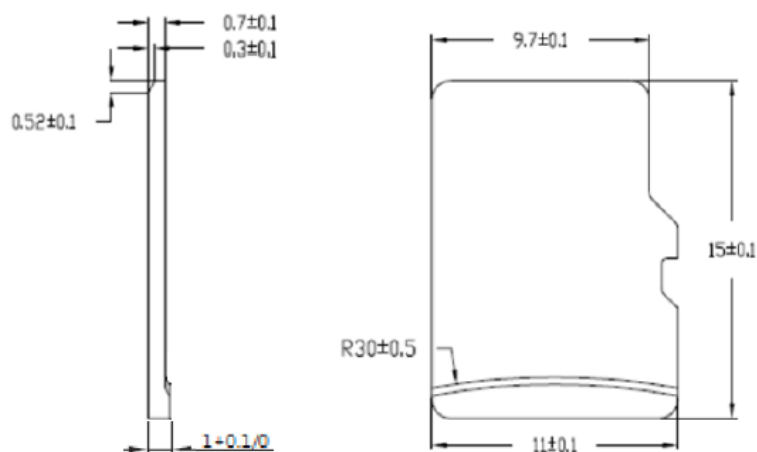
### Ordering Information

| Operating Temp. | 8GB         | 16GB        | 32GB        | 64GB        |
|-----------------|-------------|-------------|-------------|-------------|
| -25°C to 85°C   | IDU3A-008GM | IDU3A-016GM | IDU3A-032GM | IDU3A-064GM |
| -40°C to 85°C   | IDU3A-008GT | IDU3A-016GT | IDU3A-032GT | IDU3A-064GT |

## Specifications

| Model                              | IDU3A                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Form Factor                        | microSD                                                                                 |
| Capacity                           | 8GB – 64GB                                                                              |
| Interface                          | SD 2.0/3.0                                                                              |
| Flash Type                         | MLC                                                                                     |
| Dimensions (L x W x H)             | 11 x 15 x 1mm                                                                           |
| Sequential Read (Max.)             | 96MB/s                                                                                  |
| Sequential Write (Max.)            | 67MB/s                                                                                  |
| Speed Class                        | UHS Speed : Class 1                                                                     |
| Operating Temperature (Standard)   | -25°C to 85°C                                                                           |
| Operating Temperature (Industrial) | -40°C to 85°C                                                                           |
| Operating Voltage                  | DC 2.7V - 3.6V                                                                          |
| Power Consumption (Max.)           | 0.63W                                                                                   |
| Shock Resistance                   | 1500G/0.5ms, Half Sine Wave                                                             |
| Operating Humidity                 | 5%-95% RH, non-condensing                                                               |
| Vibration Resistance               | 20G (20-2000Hz)                                                                         |
| Technologies                       | BCH ECC, Wear Leveling, Garbage Collection,<br>Bad Block Management, S.M.A.R.T. Monitor |

## Diagram



Unit: mm

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