Datasheet

# Industrial Nano USB

- -40°C~85°C operation
- Excellent data transfer speed
- Intelligent system for error recovery
- Enhanced power cycling
- ESD proof
- iSMART utility for  health monitoring

## Introduction

The Innodisk Industrial nanoUSB is the smallest industrial USB storage in the world. It electrically complies with High-speed USB 2.0 interface & backward compatible with USB 1.1. In order to fulfill the industrial applications, Industrial nanoUSB is embedded with SLC NAND flash. Moreover, it features enhanced power cycling which ensures data integrity in flash when abnormal power failure happens.
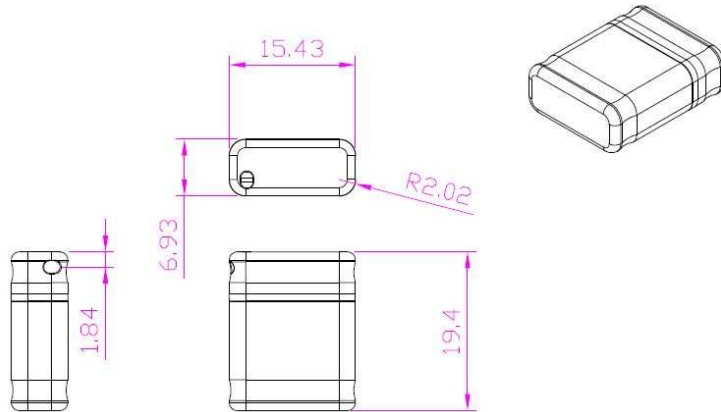
The Industrial nanoUSB offers following key features which make it more reliable, such as being ESD resistant to 8KV (contact discharge) and 15KV (air discharge). At the same time, it also features a wide operating temperature range from -40℃ to 85℃, making it well- suited for industrial control applications in a variety of different rugged operating conditions. Also, the health of Industrial nanoUSB can be monitored by a specific i-S.M.A.R.T utility.

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## Diagram



(Tolerance is ± 0.2mm)

## Specifications

| | |
|---|---|
| Interface | USB 2.0 |
| Flash Type | SLC |
| P/E cycle | 60,000 |
| Capacity | 1GB~8GB |
| Max. Channels | 1 |
| Sequential R/W (MB/sec, max.) | 19/17 |
| Max. Power Consumption | 0.45W (5V x 90 mA ) |
| Thermal Sensor | - |
| External DRAM buffer | - |
| H/W Write Protect | - |
| ATA Security | - |
| S.M.A.R.T. | √ |
| Dimension (WxLxH) | 15.4 X 19.4 X 6.9mm (± 0.2mm) |
| Environment | Vibration: 5G @7~2000Hz<br>Shock: 50G @ 0.5ms<br>Storage Temperature: -55°C ~ +95°C<br>MTBF: 3 million hours |

## Ordering Information

| Operation Temp. | 1GB | 2GB | 4GB | 8GB |
|---|---|---|---|---|
| Standard Grade (0°C ~ +70°C) | DEUN-01GS24AC1SB | DEUN-02GS24AC2ST | DEUN-04GS24AC2ST | DEUN-08GS24AC2ST |
| Industrial Grade (-40°C ~ +85°C) | DEUN-01GS24AW1SB | DEUN-02GS24AW2ST | DEUN-04GS24AW2ST | DEUN-08GS24AW2ST |

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