



ATP Industrial Grade USB Drives

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



NANODURA / USB Module

ATP Industrial Grade USB Drives are designed for mission critical embedded applications with space constraints, high performance and high data retention requirements. The drives have the extraordinary endurance of 60,000 program/erase cycles, while most MLC-based USB drives on the market have less than 3,000 program/erase cycles. The Industrial Grade USB Drive is ideal for industrial application such as medical, IPC and automation applications.

Key Features

- Enhanced endurance with Advanced Wear Leveling algorithm
- 10 years data retention for SLC-based ATP Industrial Grade USB Drive vs. 6 months for MLC-based USB drives
- System in Package (SIP) Technology: extreme operating temperature: -40°C to 85°C, water/moisture resistance, vibration, shock and electrostatic discharge resistant
- Support S.M.A.R.T ATA feature set
- NSA Compliant SecureErase

Applications

- Medical
- Industrial PC
- Automation applications



Specifications

| Product Name | USB Drive-NANODURA | USB Module |
|---------------------------|--------------------------------------|-------------------|
| Flash Type | SLC | |
| Capacities | 512MB to 8GB | |
| Performance | Sequential Read up to 21MB/s | |
| | Sequential Write up to 16MB/s | |
| Interface | Compatible with USB 2.0(480Mbps) | |
| Operating Temperature | -40°C to +85°C | |
| Reliability | Advanced Wear Leveling | |
| | TBW** (max.) : 96 TB | |
| | MTBF @ 25°C: >5,000,000 hours | |
| | Number of Insertions: 10,000 minimum | |
| Dimensions: LxWxH (mm) | 34.0 x 12.2 x 4.5 | 26.6 x 12.0 x 4.5 |

** 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 | USB Drive-NANODURA | USB Module |
|---------|--------------------|--------------------|
| 512MB | AF512UFNDNC(I)-OEM | AF512UFP3NC(I)-OEM |
| 1GB | AF1GUFNDNC(I)-OEM | AF1GUFP3NC(I)-OEM |
| 2GB | AF2GUFNDNC(I)-OEM | AF2GUFP3NC(I)-OEM |
| 4GB | AF4GUFNDNC(I)-OEM | AF4GUFP3NC(I)-OEM |
| 8GB | AF8GUFNDNC(I)-OEM | AF8GUFP3NC(I)-OEM |

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