



USB 2.0 NANODURA

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES






- Global wear leveling
- Bad block management algorithm
- High reliability
- Plug and Play with hot-swappable connection supported

The ATP NANODURA is an industrial USB drive built for mission-critical embedded applications. Suitable for compact systems installed in limited spaces, NANODURA's rugged metal housing and ATP System in Package (SiP) technology offer rugged durability for dependable use in extreme operating temperatures ranging from -40°C to 85°C and resistance to water/moisture, vibration, shock and electrostatic discharge (ESD).

NANODURA offers up to 60,000 program/erase (P/E) cycles, which is 20X higher than other USB drives in the market. The extraordinary endurance, advanced bad block algorithm and global wear leveling make NANODURA an excellent boot drive and ideal storage solution for applications with high performance and high data retention requirements. Hot swap support guarantees maximum availability, allowing drive removal and replacement without shutting down the system.

Specifications

| USB 2.0 NANODURA | | |
|------------------------------------|---------------------|--------------------|
| Product Line | Premium B800Pi | Superior B600Sc |
| Interface | USB 2.0 (480 Mbps) | |
| Flash Type | SLC | MLC |
| Form Factor | USB Type-A | |
| Operating Temperature | -40 °C to 85 °C | 0 °C to 70 °C |
| Power Loss Protection Options | Firmware Based | |
| Optional SED Features | - | |
| Capacity | 512 MB to 8 GB | 4 GB to 8 GB |
| Performance | | |
| Sequential Read (MB/s) up to | 31 | 26 |
| Sequential Write (MB/s) up to | 21 | 10 |
| Endurance and Reliability | | |
| Endurance (TBW) ¹ up to | 192 TB | 9.6 TB |
| Reliability MTBF @ 25 °C | >5,000,000 hours | >2,000,000 hours |
| Reliability Number of Insertions | 10,000 minimum | |
| Others | | |
| Dimensions (mm) | 34 x 12.2 x 4.5 | |
| Certifications | CE, FCC, UKCA, RoHS | |
| Warranty | 5 years | 2 years |

| Technologies & Add-On Services |  S.M.A.R.T. |  Firmware-based Power Loss Protection |  Advanced Wear Leveling |  Industrial Temperature |  SiP |
|--------------------------------|---|---|---|---|--|
| Premium | ○ | ○ | ○ | ○ | ○ |
| Superior | ○ | ○ | ○ | — | ○ |

¹ Under highest Sequential write value. May vary by density, configuration and applications.
 ▲: Customization option available on a project basis.

Product spec and its related information are subject to change without advance notice.
 Please refer to www.atpinc.com for latest information

v1 012024

© Copyright 2024 ATP Electronics, Inc. All rights reserved.



The Global Leader in Specialized Storage and Memory Solutions

WE BUILD WITH YOU

ATP TAIWAN (HQ)

TEL: +886-2-2659-6368
 sales-apac@atpinc.com

ATP USA

TEL: +1-408-732-5000
 sales@atpinc.com

ATP EUROPE

TEL: +49-89-374-9999-0
 sales-europe@atpinc.com

ATP JAPAN

TEL: +81-3-6260-0797
 sales-japan@atpinc.com

ATP CHINA

TEL: +86-21-5080-2220
 sales@cn.atpinc.com