



USB Drive

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



Key Features

- Global wear leveling
- Bad block management algorithm
- High reliability
- "Plug and play" connection support hot swap

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.

Technologies & Add-On Services	S.M.A.R.T.	Advanced Wear Leveling	Industrial Temperature	SiP (System in Package)
Premium	○	○	○	○
Superior	○	○	—	○

▲: Customization option available on a project basis.

Specifications

NANODURA		
Product Line	Premium B800Pi	Superior B600Sc
Interface	Compatible with USB 2.0 (480 Mbps)	
Flash Type	SLC	MLC
Form Factor	USB Flash Drive (USB 2.0)	
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: L x W x H (mm)	34 x 12.2 x 4.5	
Certifications	CE, FCC, RoHS	CE, FCC
Warranty	5 years	2 years

¹ Under highest Sequential write value. May vary by density, configuration and applications.

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

v1.0 202201

© Copyright 2022 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