



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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Superior	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>

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

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