



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	•	•	Δ	•

Δ: Customization option available on a project basis.

Specifications

NANODURA			
Product Line	B800Pi	B600Sc	
Interface	Compatible with USB 2.0 (480 Mbps)		
Flash Type	SLC	MLC	
Form Factor	USB Flash Drive (USB 2.0)		
Operating Temperature (Tcase) ¹	-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	8 GB to 16 GB	
Performance			
Performance	Sequential Read (MB/s) up to	31	25
	Sequential Write (MB/s) up to	21	18
	Random Read IOPS (4K, QD32) up to	-	-
	Random Writes IOPS (4K, QD32) up to	-	-
Endurance and Reliability			
Endurance (TBW) ² up to	192 TB	19.2 TB	
Reliability MTBF @ 25°C	>5,000,000 hours	>2,000,000 hours	
Data Retention @ 25°C ³	10 years (with 10% P/E Cycles)	-	
Reliability Number of Insertions	10,000 minimum		
Others			
Power Consumption	5V Input Power		
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 Case Temperature, the composite temperature as indicated by SMART temperature attributes.

² Under highest Sequential write value. May vary by density, configuration and applications.

³ Data retention value may vary across different temperature ranges. It is based on experimental results and should be used only for reference.

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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