



N640-M80 | M.2 PCIe Gen3 SSD

N640-M80 PCIe M.2 SSD adopts the temperature algorithm mechanism of "Customized Industrial Firmware". Supports SLC caching technology enhances computing and random read / write performance. Moreover, TCG Opal 2.0 Security Subsystem Class/AES256 bit Hardware Encryption, reduce the risk of data breaches while guaranteeing system performance. Error Correction Codes (ECC) and Low Density Parity Check (LDPC) + TRIM Commands + Global Wear Leveling that meets the needs of Industrial field.



Main Feature

- Customized Industrial Firmware
- Industrial-Grade original flash, 3D TLC
- Supports SLC Caching Technology & Drastically Increases Computing Efficiency
- Supports Error Correction Codes (ECC) and Low Density Parity Check (LDPC)
- Global Wear Leveling Technology
- Supports S.M.A.R.T. Function (exclusive S.M.A.R.T. Tool software developed by TEAMGROUP)
- Supports TRIM Commands
- Supports AES256 bit Hardware Encryption/ TCG Opal 2.0 Security Subsystem Class

Ordering Information

Capacity	Team P/N
512GB	TE512GN640HM80
1TB	TE1TN640HM80
2TB	TE2TN640HM80

Specification

Interface	PCIe 3.0 x4
Flash Type	3D TLC
Capacity	512GB / 1TB / 2TB ^[1]
Sequential R/W	R/W: 2,500 / 1,700MB/s (Max.) ^[2]
Max. Power consumption	3.3V x 1000mA
Dimension	80.0(L) x 22.0(W) x 3.8(H) mm
Shock	<ul style="list-style-type: none"> • Operation: 50G/11ms (compliant with MIL-STD-202G Test condition A) • Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K Test condition B)
Vibration	<ul style="list-style-type: none"> • Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G General) • Non-operation: 4.02 Grms, 15 ~ 2000 Hz/sine (compliant with MIL-STD-810G General)
MTBF	> 3 million hours
Storage Temperature	-55°C (-67°F) ~ +95°C (203°F)
Operation Temperature	0°C (32°F) ~ +70°C (158°F)
P/E Cycle	3K
Thermal Sensor	✓
External DRAM Buffer	×
TRIM	✓
S.M.A.R.T.	✓
Warranty	3-year limited warranty ^[3]

[1] 1GB=1,000,000,000 Bytes. In OS system, it would be displayed as 1,000,000,000 Bytes/1024/1024/1024 = 0.93GB

[2] Transmission speed will vary according to different hardware/software conditions, therefore the data can only use for basic reference.

[3] The warranty period of solid-state drives (SSD) products is divided into a warranty of years and a warranty of the number of disk writes. One of the two conditions (the earlier one is the standard). Any improper action that causes the flash to exceed the lifespan limitation will not be warranted. (Erase Count MLC:3,000 times, SLC: 60,000 times, High Endurance 3D TLC(10K): 10,000 times, Industrial 3D TLC: 3,000 times) The erase count judge standard is to use TEAMGROUP official released S.M.A.R.T. Tool.

※We reserve the right to modify product specifications without prior notice.