



TEAMGROUP M.2 PCIe SSD N845-M30

N845-M30使用NAND為新技術3D NAND以2D NAND為基礎，將堆疊的方式由平面改為立體結構，大幅提升了最新BiCS系列顆粒可堆疊的空間，除此之外擴增了許多儲存空間。透過3D立體堆疊方式使得新BiCS系列單元間的距離相較2D NAND大幅增加，單次寫入序列所處理的資料判讀及寫入速度更加快速。

主要功能與特點

- 支援PCIe Gen3x4介面 / 符合新一代M.2規格(長度: 30mm)
- 符合NVMe 1.4協定
- 支援SLC Caching技術，大幅提升運算效能支援
- 內建LDPC ECC自動糾錯功能
- 支援HMB 技術
- S.M.A.R.T. 功能(十銓專屬開發S.M.A.R.T. Tool軟體)
- 耐用性佳，具備3,000 次抹寫週期，有效支援高工作負載應用

產品介紹

PCI-e介面 - 支援最新 NVMe 1.4協定/符合新一代M.2規格(長度: 30mm)

N845-M30採用高速NVMe 1.4協定搭載PCIe Gen 3x4傳輸通道，循序讀寫速度可達3500 / 2900MB/s (Max.)，傳輸速度超越SATA 6Gb/s介面3倍以上。並採用M.2 2230尺寸的外型設計，符合輕薄型工業裝置及行動運算系統的理想選擇。

最新BiCS系列 112 層快閃記憶體

採用最新一代BiCS 3D NAND技術，可堆疊高達112層快閃記憶體，相較於以往3D NAND 96層堆疊，每單位儲存容量更提高了40%，可達到最佳成本。新架構設計也挹注更高效能，使其 I/O 效能較3D NAND 96層提高達將近 50%。可降低讀取延遲，讓儲存效益提高和資料保護功能皆顯著提升。

支援SLC Caching技術，大幅提升運算效能

使用「SLC direct to TLC 技術」，將SSD區塊分區，劃分指定區塊模擬城SLC，指定區塊的速度可獲的提高，有助於增強工業用SSD的效能。

支援HMB 技術

支援HMB技術(Host Memory Buffer)，透過此PCIe 技術，映像表可以存於Host的緩存，PCIe 介面連結至電腦主機端的 DRAM 中，達到讀寫緩衝的功能，除了 SSD 本身無需內建 DRAM 可大幅降低成本外，實際效能優於無附加Dram 系列的SSD產品。

S.M.A.R.T. 功能 (十銓專屬開發S.M.A.R.T. Tool軟體) (台灣發明專利: I751753)

使用者能輕易監控產品的健康狀況並優化效能。主要功能為磁碟資訊、系統資訊及讀寫數據效能測試。透過此軟體，能隨時查看所使用的工業用SSD產品的運作狀態。

規格

INTERFACE	PCIe Gen3x4
FLASH TYPE	3D TLC
CAPACITY	256GB / 512GB / 1TB
SEQUENTIAL R/W	3500 / 2900
MAX. POWER CONSUMPTION	3.3V x 690 mA
DIMENSION	30(L) x 22(W) x 3.5(H) mm
SHOCK	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	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	Standard Temp.: 0°C (32°F) ~ +70°C (158°F) Wide Temp: -40°C(-40°F) ~ +85°C(185°F)
HUMIDITY	5% ~ 95%
P/E CYCLE	3K P/E Cycles
THERMAL SENSOR	x
EXTERNAL DRAM BUFFER	x
TRIM	✓
S.M.A.R.T.	✓
WARRANTY	3 years warranty

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Team Group Inc. was founded in 1997 in Taiwan, leading the industry by possessing professional research and development capabilities and a tightly-knit global sales network in storage and memory product, ranking among CommonWealth Magazine’ s top 1000 enterprises.

PERFECT CHOICE

Products from Team Group Inc. have been well received by the technology media around the globe and have won honors such as COMPUTEX d&i awards, COMPUTEX Best Choice Award, GOOD DESIGN AWARD, Golden Pin Design Award, Taiwan Excellence Awards, iF Design Award and Red Dot Award.

GLOBALIZATION

Team Group Inc. has built up a strong center in Taiwan for production, R&D, sales and customer service, and has over 300 global sales agents and 400 employees worldwide. Team Group Inc. uses differentiating sales strategies with a global vision and localized channel management to establish a closed distribution network.

GUARANTEED QUALITY & WARRANTY SERVICE

Team Group Inc. is well praised by the industry and customers by adhering to the corporate philosophy of "Integrity, Innovation, Professionalism, Efficiency, Discipline, and Simplicity." We offer faster repair and exchange services than others, guaranteeing a minimized delivery time for every global customer.

SOLID R&D CAPABILITIES

With the best technical and manufacturing team, products from Team Group Inc. are made with innovation and strict quality control. Our memory technology has passed the ISO9001 and ISO14001 certifications, taking the lead in the memory industry with our latest overclocking memory modules.



3F., No.166, Jian 1st Rd., Zhonghe Dist.,New Taipei City 23511, Taiwan
Team Group Inc.
Tel: +886-2-82265000 Fax: +886-2-82265808
mail: sales@teamgroup.com.tw / rma@teamgroup.com.tw

