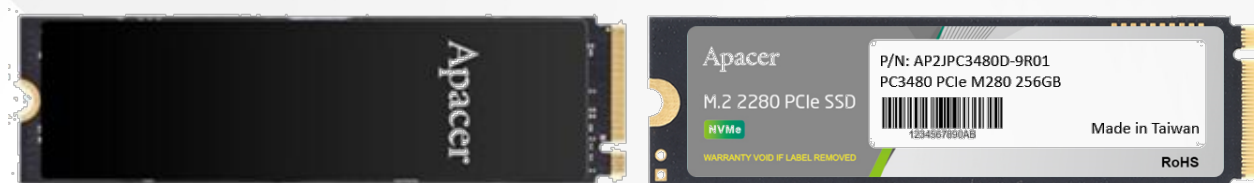


RoHS Compliant

PCI Express Flash Drive

Professional PC3480 Product Specifications



December 25, 2024

Version 1.3

Apacer Technology Inc.

1F, No.32, Zhongcheng Rd., Tucheng Dist., New Taipei City, Taiwan, R.O.C

Tel: +886-2-2267-8000 Fax: +886-2-2267-2261

www.apacer.com

Specifications Overview:

- **PCIe Interface**
 - Compliant with PCI Express 3.1
 - Compliant with NVMe 1.3
 - Compatible with PCIe Gen3 x4 interface
- **Capacity**
 - 128, 256, 512 GB
- **Performance¹**
 - Interface burst read/write: 4 GB/sec
 - Sequential Read/Write (Max.)
 - 128 GB: 1,600/1,350 MB/sec
 - 256 GB: 3,200/2,500 MB/sec
 - 512 GB: 3,500/3,000 MB/sec
 - 4K Random Read/Write IOPS (Max.)
 - 128 GB: 240K/220K
 - 256 GB: 470K/380K
 - 512 GB: 550K/400K
- **Flash Management**
 - Low-Density Parity-Check (LDPC) Code
 - Global Wear Leveling
 - Flash bad-block management
 - Flash Translation Layer: Page Mapping
 - Power Failure Management
 - S.M.A.R.T.
 - TRIM
 - Hyper Cache Technology
- **NAND Flash Type: 3D TLC**
- **MTBF: >2,000,000 hours**
- **Endurance (in Terabytes Written: TBW)**
 - 128 GB: 100 TBW
 - 256 GB: 200 TBW
 - 512 GB: 400 TBW
- **Temperature Range**
 - Operating (Tc): 0°C to 70°C
 - Storage (Ta): -40°C to 70°C
- **Supply Voltage**
 - 3.3V ± 5%
- **Power Consumption¹**
 - Active mode (Max.)
 - 128 GB: 3,000 mW
 - 256 GB: 4,000 mW
 - 512 GB: 4,000 mW
 - Idle mode: 700 mW
- **Heat Dissipation Design: Heat Spreader**
- **Connector Type**
 - 75-pin M.2 module pinout
- **Physical Characteristics**
 - Form factor: M.2 2280
 - Dimensions (L x W x H): 80.00±0.15mm x 22.00±0.15mm x 2.25(max.), unit: mm
- **Shock and Vibration²**
 - Shock: 1,500 G
 - Frequency/Displacement: 20Hz~80Hz/1.52mm
 - Frequency/Acceleration: 80Hz~2000Hz/20G
- **RoHS Compliant**
- **Warranty: 3 years or TBW (whichever occurs first)**

Notes:

1. Varies from capacities. The values for performances and power consumptions presented are typical and may vary depending on flash configurations or platform settings. The term idle refers to the standby state of the device.
2. Non-operating

Product Ordering Information

Capacity	Bulk P/N
128GB	AP2HPC3480D-9R01
256GB	AP2JPC3480D-9R01
512GB	AP2KPC3480D-9R01

Revision History

Revision	Description	Date
1.0	Initial release	6/20/2024
1.1	- Added product photos to the cover page - Added Heat Spreader to Specifications Overview	7/26/2024
1.2	Updated NAND flash type from 3D NAND to 3D TLC on Specifications Overview page	10/9/2024
1.3	Updated the text on the cover page	12/25/2024

Global Presence

Taiwan (Headquarters)

Apacer Technology Inc.

1F., No.32, Zhongcheng Rd., Tucheng Dist.,
New Taipei City 236, Taiwan R.O.C.
Tel: 886-2-2267-8000
Fax: 886-2-2267-2261
amtsales@apacer.com

U.S.A.

Apacer Memory America, Inc.

46732 Lakeview Blvd., Fremont, CA 94538
Tel: 1-408-518-8699
Fax: 1-510-249-9551
sa@apacerus.com

Japan

Apacer Technology Corp.

6F, Daiyontamachi Bldg., 2-17-12, Shibaura, Minato-Ku,
Tokyo, 108-0023, Japan
Tel: 81-3-5419-2668
Fax: 81-3-5419-0018
jpservices@apacer.com

Europe

Apacer Technology B.V.

Science Park Eindhoven 5051 5692 EB Son,
The Netherlands
Tel: 31-40-267-0000
Fax: 31-40-290-0686
sales@apacer.nl

China

Apacer Electronic (Shanghai) Co., Ltd

Room D, 22/FL, No.2, Lane 600, JieyunPlaza,
Tianshan RD, Shanghai, 200051, China
Tel: 86-21-6228-9939
Fax: 86-21-6228-9936
sales@apacer.com.cn

India

Apacer Technologies Pvt Ltd,

1874, South End C Cross, 9th Block Jayanagar,
Bangalore-560069, India
Tel: 91-80-4152-9061/62
Fax: 91-80-4170-0215
sales_india@apacer.com