PC-LINK• Image Management
NVMe/SATA Cross-interface Duplicator

PP281M

24GB/min
Transfer speed

PP281M is a professional duplicator with few ports and multiple interfaces for duplication. It adopts industrial-grade FPGA architecture design, allowing the duplicator to support cross-interface, auto signal identification and auto power-off function. With the source image file management system, multiple images file can be stored in a large-capacity hard disk for centralized management. It can be connected to PC through Type-C interface, making the duplicator a perfect M.2 external box. Reading and modifying the M.2 SSD can be easy and convenient.

Key features

M.2 & SATA Cross-interface mode

With cross-interface design, even if you use different interface devices, you can directly copy on the duplicator without installing drivers or restarting. It can meet the needs of customers with different devices.

Source management system

With connection to PC, it's available to create an image file through duplicator, and can store multiple image files for centralized management in the master hard disk. Reading the source content, modifying the image file name or deleting of a single image file are supported on PP281M.

FPGA architecture

Adopting industrial-grade FPGA architecture, in addition to cross-signal and cross-interface copying, it also avoids the problems of computer crashes, being infected, and the need to restart after each round of copying.

Hot swap, auto power off

In NVMe specification, when the device is plugged and unplugged under power supply, it is easy to cause data loss or device damage. PP281M does not need to be restarted, and the device is automatically powered off after the copy is completed, ensuring the safety of M.2 SSD.

Link to PC to read/write source data

Connect to PC via Type-C interface to use as an external box, no need to distinguish the signal, allowing users to read and modify file content of source device directly on the computer.

Auto recognition of NVMe / SATA / AHCI signals

M.2 SSD is difficult to distinguish between NVMe and SATA signals from the appearance. As long as the device is connected to duplicator, the signal can be automatically identified and copied, no need to read the specification to confirm the SSD signal, even if different signals .

Dual data verification: Compare+ CRC

In addition to the bit-to-bit comparison function, PP281M uses the CRC international calculation standard to confirm the correctness of the data, and whether the source data is correct. User only needs to confirm the CRC value at the end of the copy and can also confirm whether the copied data is correct.

CRC: 7073923CEBDF7B58

Supported Interface

- Each port is modularized to save plug in and pull-out time. Therefore, it greatly increase the production efficiency.
- Users can easily and swiftly replace the interface module.
- Supported Interfaces：

Interface	M.2 (NGFF)	SATA
Picture		
Device Signal	NVMe AHCI	SATA	SATA

Standard Accessories

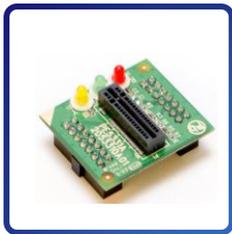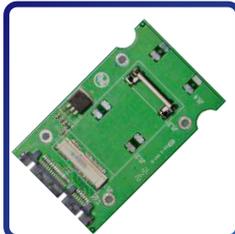| Duplicator x 1 | 12V 5A Adaptor x 1 | Power Cord x 1 | USB Type-C Cable | 6cm SATA x 2 | User Manual x 1 |

Optional Accessories

| M.2 Socket -P1098 | mSATA to SATA Adapter -P1041 | M.2(NGFF) to SATA Adapter -P1051 | CFast to SATA Adapter -P1053 | CFexpress Adapter |

Specifications

Bandwidth Performance	24 GB/min. *Actual performance is dependent on Device transfer speeds
Supported Formats	• Quick Copy (System and Files)：FAT16/32/64, Windows (NTFS), Linux(Ext2/Ext3/Ext4), and Mac(HFS/HFS+/HFSX) • Whole Device Copy：All formats, including proprietary formats.
Image File Operation Mode	• HDD → Image • Image → HDD (Can be executed under Copy, Compare, Copy+Compare)
Supported OS	All (Windows, Mac, Linux, and other proprietary systems)
Operation Mode	Standalone, FPGA-based Operation
LCD Display	2x20 Backlit Monochrome LCD Display
LEDs	3 LED Indicators per Port: Yellow (Power), Green (Pass), Red (Fail)
Control Panel	4 Push Buttons (▲, ▼, OK, ESC)

Functions

Copy Modes	Quick Copy (System and Files) / All Partitions / Whole Device /Percentage Copy
Sanitization Modes	Quick Erase, Full Erase (NIST 800-88), Secure Erase
Others	Bit-by-bit Comparison, Count of Bad Sector , Skip Bad Sectors

Compatibilities

Compatible Device	• M.2(NGFF) M Key & B+M Key、SATA interface
Compatible Signal	NVMe, AHCI, SATA
Others	• Supports GPT, MBR, and Advanced Formats. • Over 18TB+

Hardware Specifications

Power Requirements	12V 5A Power Adaptor	
Temperature	Working: 5°C ~ 45°C	Storage: -20°C ~ 85°C
Humidity	Working: 20% ~ 80%	Storage: 5% ~ 95%
Physical Dimensions	180 mm X 156 mm X 34 mm	
Product Weight	888g (Machine net weight) / 2450g (Machine gross weight)	
Packaging	340mm X 280 mm X 190 mm	

Specifications subject to change without notice.