PE Series:
NVMe M.2 Duplicator

PE Series PCIe M.2 SSD duplicator is specially designed for high volume duplication. It is adopted a unique multitasking technology that can simultaneously copy up to 20 PCIe M.2 targets with a high transfer speed of 24 GB per minute. We guarantee the highest productivity without speed degradation even as the number of targets increase.

Features

Ultra-high Copy Speed
Dedicated bandwidth for each port. Enables 1-20 duplication at 24 GB/min.

Controller Design
Embedded controller is designed to support capacities of 18TB+. Constant improvement supports latest market-available devices.

Cable-free Hardware Design
Modular-designed ports effectively reduce downtime and is cost-effective for long-term ownership.

Non PC-based, Hot Swap Supported
Stand-alone, FPGA-based operation. Supports hot swapping of devices.

Read-Only Source Port
There is no option to disable this built-in feature and it is integrated with all U-Reach duplicators.

Cross-Signal Duplication
- Supports NGFF copy to NVMe M.2 SSD.
- Supports SATA SSD copy to NVMe M.2 SSD with corresponding frame and sockets (optional).

Event Log Management
- Records: operating durations, individual port copy progressions, connected device models, capacities, serial numbers, and PASS or FAIL results.
- Device writing/reading speeds are recorded.
- Log report files are generated through the front USB port and are saved to USB devices.

Image Management (Optional)
Allows user to transfer multiple master images from PC and store them in the duplicator's optional internal storage device.

Product Models

Photos	Models	Target Ports	Product Dimensions	Package Dimensions	Package Weight
	PE600	1:5	28 x 26 x 22 cm	46.7 x 39.5 x 37 cm	9.1 Kg
	PE1100	1:10	50 x 29 x 22 cm	57.7 x 43.3 x 38 cm	13.6 Kg
	PE1600	1:15	50 x 46 x 22 cm	62.7 x 59.4 x 35 cm	18.9 Kg
	PE2100	1:20	50 x 46 x 22 cm	62.7 x 59.4 x 35 cm	22.9 Kg

Supported Interface

• Each port is modularized to save the plug in and pull out time and increase the production efficiency.
• Users can easily and swiftly replace the interface module.

• Supported Interfaces：

Interface	Native	Optional				
	M.2 (NGFF)	U.2 (SFF-8639)	SATA	PCIe	BGA SSD	CFexpress
Picture						
Device Signal	NVMe AHCI SATA	NVMe AHCI	SATA	NVMe AHCI	NVMe AHCI	NVMe
Socket or Adapter						
Model No.	TB1587	TB1589V2		P2002	TB1616	P2001 & P2002

Standard Package

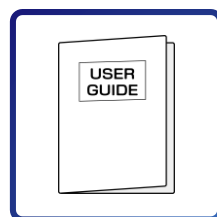
Duplicator x 1

Power Cord x 1

Grounding Cable x1

User Manual x 1

PC Link Software
USB x 1

1 pair of Gloves**

**Wear protective gloves to prevent burns when handling devices.
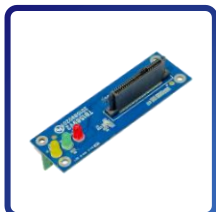
Optional Accessories

TB1587

M.2 Socket

TB1589V2

U.2 & SATA
Socket*

P2002

PCIe Adapter

TB1616

BGA SSD
Socket

P2001

CFexpress
Adapter

U1072

MAC PCIe
Adapter

PE-FH05

M.2 SSD
Fixture**

2.5" SSD
(for Image
Management
function)

*TB1589V2 requires an additional cover when install on PE.
**Different models requires different fixtures.

Specifications

Bandwidth Performance	24GB/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.
Supported Capacity	Over 18TB+.
Supported OS	All (Windows, Mac, Linux, and other proprietary systems)
Operation Mode	Standalone, FPGA-based Operation

Functions

Copy Modes	Quick Copy (System and Files) / All Partitions / Whole Device / Percentage Copy
Compare (Verification)	Bit-by-bit data comparison from the source device to target device(s).
Sanitization Modes	Quick Erase, Full Erase (NIST 800-88), DoD Erase (DoD 5220.22-M), Secure Erase (NIST 800-88).
Log Manager	Manage and export log reports.
Others	Skip Bad Sectors, Copy or Skip Unknow Format.
Image Management (Optional)	Transfer multiple image files from PC to internal storage device in duplicator.

Compatibilities

Compatible Device	• Directly compatible with: M.2(NGFF) M Key & B+M Key. • Compatible through optional modules: SATA, U.2(SFF-8639) , Mini PCIe, mSATA, CFast, etc.
Compatible Protocol	NVMe, AHCI, SATA
Others	Supports GPT, MBR, and Advanced Formats.

Hardware Specifications

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)	
Power Requirements	Universal Power: 115V AC or 230V AC, 50/60Hz	
Temperature	Working: 0°C ~ 60°C	Storage: -20°C ~ 85°C
Humidity	Working: 20% ~ 80%	Storage: 5% ~ 95%
Certifications	FCC, CE, RoHS, and Reach	

**Specifications subject to change without notice.