

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.

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.

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).



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. | TB1587V2 | TB1589V2 | | TB1568 | TB1616 | P2001 & P2002 |

Standard Package



Duplicator x 1



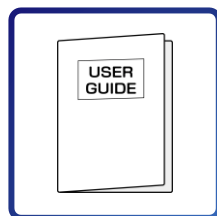
Power Cord x 1



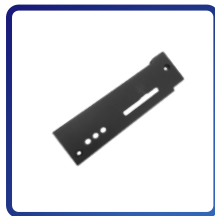
Grounding Cable x1



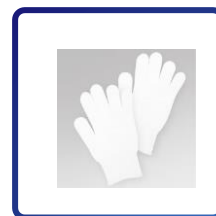
PC Link Software
USB x 1



User Manual x 1



U.2 Socket Cover



1 pair of Gloves**

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

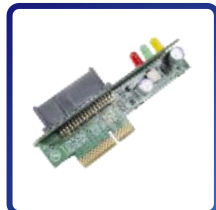
Optional Accessories

TB1587V2



M.2 Socket

TB1589V2



U.2 & SATA
Socket

TB1568



PCIe Socket

TB1616



BGA SSD
Socket

P2001



PCIe to M.2
Adapter

P2002



CFexpress to PCIe
Adapter



2.5" SSD
(for Image
Management
function)

**Frames for TB1589 are different by ports. PE-F115U is for PE600 use.

Specifications

| | |
|-----------------------|---|
| Bandwidth Performance | 24GB/min *Actual performance is dependent on Device transfer speeds* |
| Supported Formats | Quick Copy (System and Files): FAT16/32, exFAT, 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 | <ul style="list-style-type: none"> • Directly compatible with: M.2 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.