



# THE DATA EQUIPMENT **EXPERT**

Duplication  
Inspection  
Sanitization



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## U-Reach Inc. — The Data Equipment Expert

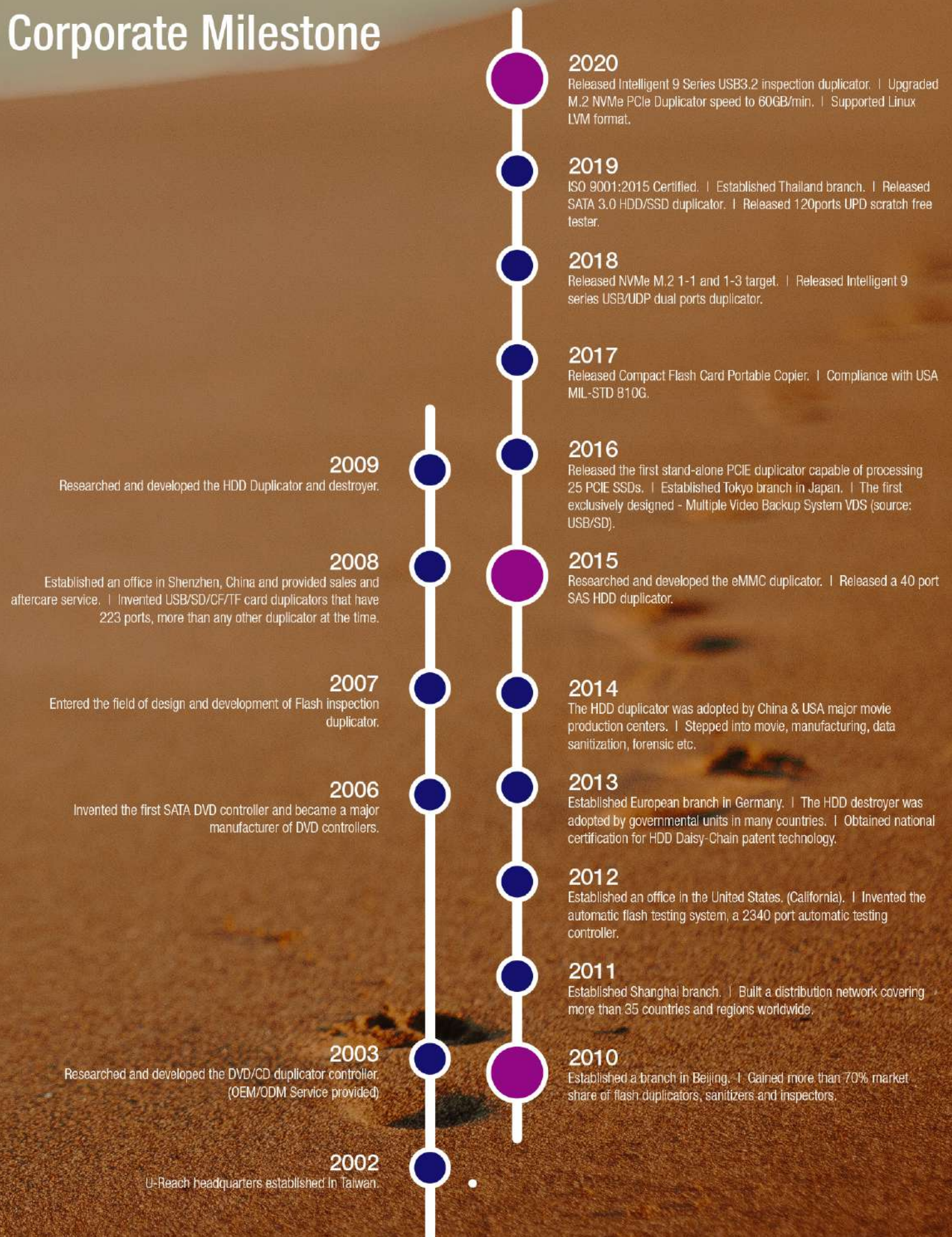
With 20 years of experience, UReach specializes in the design and production of stable, high-speed data solution equipment, with a competitive product portfolio which includes duplication, inspection, sanitization and covers Flash, HDD and M.2 PCI-E SSDs.

UReach has vast distribution networks and business partners stationed all over the world and has set up seven branches in USA, Europe and Asia. Its global technical support center (Technical Support Center) offers real-time service to multinational companies.





## U-Reach Corporate Milestone





## Leading Ahead High-Speed Data Equipment

### M.2 NVMe PCIe Duplicator, Advantageous Products Portfolio

U-Reach has remarkable breakthroughs in data equipment R&D innovations. U-Reach has led forward in developing the world's first NVMe M.2 SSD duplicator in 2017 when the market was still dominated by SATA, and UReach introduced the first NVMe and SATA dual-signal, auto-identification duplicator to the market. The comprehensive variety of PCIe NVMe M.2 product portfolios cover all kinds of M.2 SSD duplicators.



Speeding



Accuracy



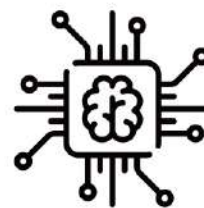
Reliability

### USB2.0/3.0 High-Speed Inspection Duplicators

In 2019, U-Reach officially launched the USB2.0 / 3.0 signal detection and duplication function, which was unanimously appreciated by users in the market. Synchronous automatic signal detection with a large amount of USB 2.0 / 3.0 flash drives can be completed in only 3 seconds, thus immensely improving work efficiency.

### More than 20 years of experience in R&D

With more than 20 years of experience in R&D, U-Reach has mastered the competitive technologies of data processing and software/hardware integration. The cutting edge native-signal duplicators predominate competitors and improve data accuracy and compatibility of cross-system data duplication.



Technology-Driven



Innovation

### The Leading-Edge Technology

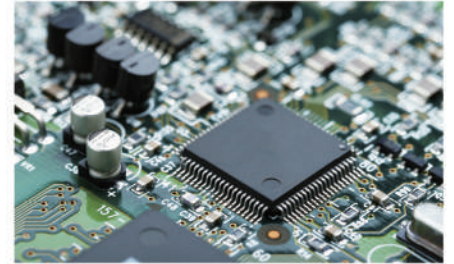
- The first flash duplication and inspecting equipment that supports multiprocessing of over 2000 flash targets without speed degradation.
- The only non-PC based equipment that can generate event log reports, which record the details of operation and media information.
- The only FPGA chip architecture, duplication/detection system that can work in conjunction with a computer (PC-LINK / PC Control / PC download).
- The first M.2 NVMe and M.2 SATA dual-signal, auto-identification duplicator; support cross signal and cross-interface copy.
- The first USB duplicator that supports anti-deletion, write-protection and anti-tamper on multiple USB drives.



## Multi Tasking Technolog

Extending the idea of parallel processing from a supercomputer, the parallel processing technology derived from FPGA architecture allows each device to work independently.

U-Reach's multitasking technology empowers each controller to work independently and thus guarantees overall performance and reliability despite unpredictable glitches from individual devices. The exclusive embedded technology applied to all U-Reach equipment supports a maximum of up to 1,000 flash and hard drive duplication targets without speed degradation.



## Daisy Chain Technology

The patented Daisy-Chain technology is exclusively designed by U-Reach. It provides expandability as production demands grow. Therefore, when the hard drive duplicator is equipped with the Daisy-Chain technology, it can be used alone or in combination with multiple devices. Leveraging its proprietary multitasking technology, all copying targets are working with true independent channels so that reliability is sustained regardless of uncertainty introduced by connected devices. The entire hard drive duplicator works together without any performance degradation. A single hard drive duplicator copies at 120MB/sec, with Daisy-Chain technology it allows hundreds of hard drive duplicators to deliver the same performance of 120MB/sec.



## Event Log Report

Event Log Report is an important asset management tool to assist users in monitoring and recording the whole duplication control process.

Our innovative efforts helped bring this advanced Event Log feature into all U-Reach HDD Duplicators, USB Duplicators and SD/CF Duplicators. It's a dynamic way for users to manage duplication task efficiently. The Event Log report records all details of each duplication task. For example: working time, run function, model number, serial number of media and results...etc.



## HDD Sanitization

U-Reach offers many options for data sanitization:

### DoD Erase

Using the US Department of Defense data security erasure standard 5220.22M, U-Reach duplicators use three overwrites to ensure that the data is completely erased. In addition, when using the option of erasing mode, the complexity of overwriting can be enhanced during the last random number overwrite, greatly improving data security.

### 7-Pass Erase

To comply with the 5220.22M data erase security standard of U.S.A. Department of Defense, erases HDD 7 times to enhance security.

### Secure Erase

This erase method adopts the National Institute of Standards and Technology's data security erasure 800-88 standard (NIST 800-88 Guidelines for Media Sanitization). All data is completely overwritten and erased by the hard drive's own hardware commands, including all data areas, HPA/DOS hidden areas and spare blocks that are normally unavailable. With U-Reach's multi-core transfer technology, the duplicator can handle tens to hundreds of HDD sanitation at the same time. The efficiency is much faster than a PC.





# Global Business, Localized Service

U-Reach has seven branches in USA, Europe and Asia. Providing a global technical support center (Technical Support Center) with advanced customer service system, committed to offer real-time service to local clients and multinational companies.

U-Reach Europe



U-Reach USA



U-Reach Shanghai



U-Reach Beijing



U-Reach Japan



U-Reach Thailand



U-Reach Shenzhen



Taiwan Headquarters & Factory

# U-Reach Products Scope



## Flash Duplicator and Sanitizer



USB



SD



microSD



CF/CFast



DOM

### Intelligent 9 Series Flash Duplicator

**U3** U3 Series

**S** Silver Series

**G** Golden Series

**WP** Write Protect Series



### Mini Flash Series



### Industrial Series



## Disc Duplicator/Controller

Blu-ray/DVD/CD

### Controller



BD18XX Series



uPRO (P7) Series

### Duplicator



BD Series



uPRO (P7) Series





# HDD / SSD Duplicator

2.5"/ 3.5"HDD (SAS, SATA, IDE)/SSD/MicroSATA/MSATA/iVDR/eSATA/M.2/U.2

## M.2/U.2 PCIe NVMe Duplicator



PE600



PE1100



PE1600



PE2100

## M.2/U.2 PCIe Slim NVMe Duplicator



PV400



PV800

## Dual-interfaces M.2/SATA PCIe SSD Duplicator



PW800



PW1200

## SAS SSD/HDD Duplicator



MTS800SAS



MTS1600SAS

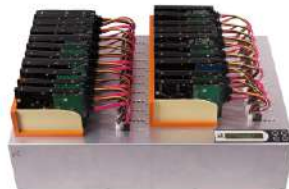


ITS700SAS

## SATA SSD/HDD Duplicator



IT Series



MT Series



MT-CRU Series

## Mini Series



PRO118 (SATA)



PRO218 (SATA)



PRO318 (SATA)



PRO250 (SATA)



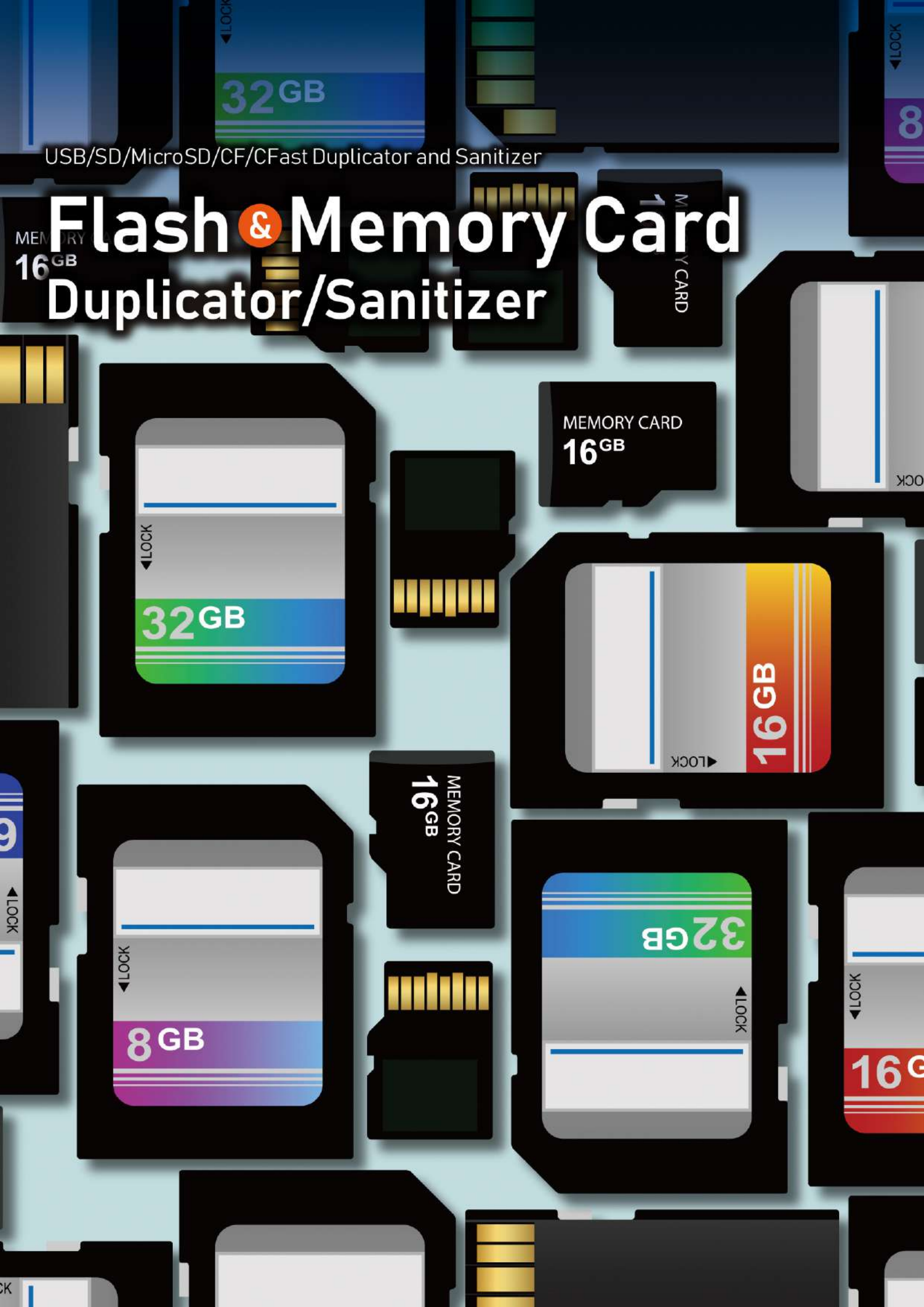
SA310 (SAS)



SP151 (M.2 NVMe/SATA)

USB/SD/MicroSD/CF/CFast Duplicator and Sanitizer

# Flash & Memory Card Duplicator/Sanitizer





## USB 3.1 USB-HDD / USB Duplicator

**U3** 10GB/min.

- Smart Copy
- PC Monitoring
- USB-HDD Support
- Socket Swap
- Quality Check
- Speed Check
- Capacity Check
- MIL-STD 810G



UB3948

UB3932



UB3908

UB3916

UB3924

Model	UB3908	UB3916	UB3924	UB3932	UB3940	UB3948
Target	1 to 7	1 to 15	1 to 23	1 to 31	1 to 39	1 to 47

## USB-HDD / USB Duplicator

**S** 2GB/min. **G** 2GB/min.

- Smart Copy
- PC Monitoring
- USB-HDD Support
- Socket Swap
- Quality Check
- Speed Check
- Capacity Check
- MIL-STD 810G



UB960



UB910

UB920

UB930

Model	UB905	UB910	UB920	UB930	UB940	UB960	UB9120
Target	1 to 4	1 to 9	1 to 19	1 to 29	1 to 39	1 to 59	1 to 119

## ComboSD (SD+microSD) Memory Card Duplicator

**S** 2GB/min. **G** 2GB/min.

- Smart Copy
- PC Monitoring
- Socket Swap
- Quality Check
- Speed Check
- Capacity Check
- MIL-STD 810G



SD940



SD916

SD924

SD932

Model	SD908	SD916	SD924	SD932	SD940	SD948	SD964	SD9120
Target	1 to 7	1 to 15	1 to 23	1 to 31	1 to 39	1 to 47	1 to 63	1 to 119

## CF/CFast Card Duplicator

**S** 3.9GB/min. **G** 3.9GB/min.

- Smart Copy
- Socket Swap
- Quality Check
- Speed Check
- Capacity Check
- PC Monitoring
- MIL-STD 810G



CF/CFast 940



CF/CFast 908

CF/CFast 916

CF/CFast 924

Model	CF904	CF908	CF916	CF924	CF940
Target	1 to 3	1 to 7	1 to 15	1 to 23	1 to 39

Model	CFast904	CFast908	CFast916	CFast924	CFast940
Target	1 to 3	1 to 7	1 to 15	1 to 23	1 to 39

## Distinctive Copy Functions

### Intelligent Copy Option

- **Systems and Files** (Quick Copy Mode)

1. The duplicator automatically copies only the data area, rather than the empty spaces within the capacity, which reduces the duration of the copy process.
2. This copy mode supports file formats such as Windows (FAT16/ 32/ 64/NTFS), Linux (ext2/ext3/ext4), and Mac (HFS/HFS+/HFSX). If the file system format to be copied is not among the supported formats above, then system will automatically switch to “whole media copy” mode.



Windows  
FAT16/32/64/NTFS



Macintosh  
HFS/HFS+/HFSX



Linux  
ext2/ext3/ext4

- **Whole Media**

1. The duplicator copies from the initial sector to the end, bit-by-bit.
2. There are no format limitation in this mode.

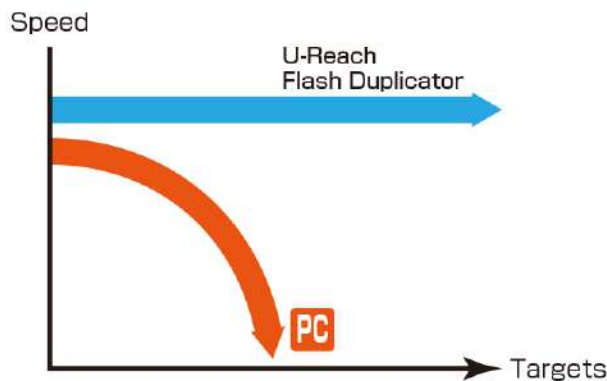
### Illustration of Copy Modes

The areas containing data are marked in blue. The areas being copied are marked in red. The actual copying time depends on the speed supported by the USB drive, memory card, or hard drive for copying.



## No Speed Degradation

The copying speed remains consistent despite the gradual increase in the number of flash devices on the duplicator.





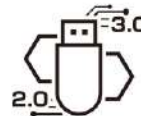
## Quality Testing / Checking Functions

U-Reach flash memory duplicator/sanitizer has built-in functions to inspect flash devices. It helps the user to identify and remove poor quality USB drives/flash memory cards.



### H5 Write/ Read Test

Overwrites all sectors in the NAND flash with machine-generated values and verifies them to determine the device quality. Once the test passes, the devices are formatted using FAT.



### U23 Detecting USB 2.0/3.2 Signals



This function can detect the USB2.0/3.0 signal in 3 seconds and automatically detect two kinds of signals at the same time, which is crucial for flash drive manufacturers to check the quality of flash drives.



### H3 Read Only Test

Determines if the flash is readable. This test will not modify pre-existing data.



### H6 Quality Test

Resembling the H5 test, this function overwrites empty sectors with machine-generated values without disturbing preexisting data, partitions, or formats.



### Capacity Check

Verifies the initial and final sectors of the connected flash devices within a couple seconds.



### Read/ Write Speed Check

This function performs a read/write benchmark of the connected devices within 8 seconds.



### Burn-in Test



Performs user-defined burn-in tests to flash devices from 30 minutes through 30 days to determine quality and longevity.

## Modular Sockets

Interfaced sockets are subjected to wear and tear caused by frequent connections and disconnections. Modular sockets enable quick replacement while reducing downtime, effectively making this solution a long-term and cost-effective ownership.



USB



ComboSD  
(SD/microSD)



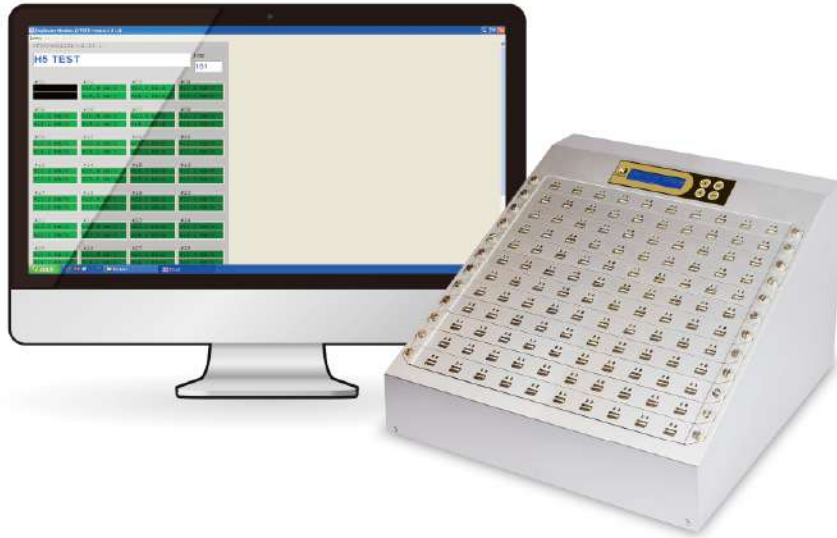
microSD



CF

## Real-Time Monitoring

Monitor real-time status via PC through the USB cable link.



## Event Log Report



- Records duplicator operation (time and result).
- Records system and target information details (VID/PID, MID/OID, S/N number).
- Proves to be an essential tool for production quality, remote control, and yield analysis.
- U-Reach Event Log Report can Record, Manage and Analyze Production Process.

## Explanation of Intelligent U3 Log Report

Print Time: 2021-04-06 16:31:13

[Machine Information]  
 Model: UB47486 X 24  
 F/W Ver: 2.43.7  
 Machine ID: 4748.00040.52294.17528.51292

• Machine Identification

Job: HS TEST (+Format)  
 [Working Time]  
 Start: 2021-04-06 10:00:41  
 End: 2021-04-06 10:01:36  
 [Test Area]  
 Size: 50MB  
 No need to do USB signal detection  
 [Quantity]  
 Total: 9  
 Pass: 9  
 Fail: 0

• Operation Function and Records

• U23 Detecting USB2.0/3.0 Signals (USB3.0 Series Only)

[Pass Record]	PORT	-----Date-Time-----	Result	USB Type	Model Name	Version	Serial No.	Capacity(LBA Sectors)
009	2021-04-06	10:00:41 (	23 seconds)	PASS	USB2.0 [VID:0981, PID:5581] [UTra	[1.00	[[C63000120120111582	] 37.9GB(121438208)   W:69.1M/S R: 14.3M/S
005	2021-04-06	10:00:47 (	20 seconds)	PASS	USB2.0 [VID:13FE, PID:5500] [USB DISK 3.0	[[PMAP	[[900043682A918E03	] 14.5GB(30441472)   W:18.2M/S R:61.5M/S
007	2021-04-06	10:00:51 (	22 seconds)	PASS	USB2.0 [VID:1005, PID:8113] [FLASH DRIVE	[[1.0	[[AP70615504AFC1CF	] 3882.0MB(7881552)   W:10.3M/S R:12.8M/S
008	2021-04-06	10:00:51 (	23 seconds)	PASS	USB2.0 [VID:058F, PID:6387] [soe2Book	[[8.07	[[BWL1445P00000002524	] 3882.0MB(7881552)   W:8.78M/S R:22.2M/S
010	2021-04-06	10:00:52 (	25 seconds)	PASS	USB2.0 [VID:1548, PID:007A] [USB 2.0 FD	[[11.00	[[0416000000007048	] 15.2GB(31950720)   W:6.07M/S R:25.5M/S
004	2021-04-06	10:00:54 (	26 seconds)	PASS	USB2.0 [VID:0951, PID:1665] [DataTraveler 2.0	[[1.00	[[60A44C42368CF1114989247A	] 14.4GB(30238588)   W:5.13M/S R:22.5M/S
002	2021-04-06	10:00:56 (	28 seconds)	PASS	USB2.0 [VID:0781, PID:5406] [U3 Cruzer Micro	[[2.18	[[0000152856000CA	] 483.4MB(990864)   W:4.45M/S R:10.4M/S
006	2021-04-06	10:00:59 (	30 seconds)	PASS	USB2.0 [VID:058F, PID:6387] [Flash Disk	[[8.07	[[3172FC3B	] 3850.0MB(7884800)   W:5.24M/S R:16.8M/S
003	2021-04-06	10:01:02 (	33 seconds)	PASS	USB2.0 [VID:058F, PID:6387] [Flash Disk	[[8.07	[[82FAA830	] 3840.0MB(7864320)   W:4.80M/S R:12.5M/S

(1) Accuracy of the master source

(4) Clarify maintenance tracking responsibilities

(2) Automatically record the model and serial number


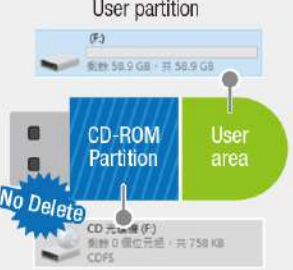
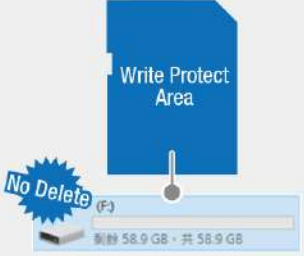



(5) Quality certification prior to delivery

(3) Yield rate and counterfeit analysis

(6) Productivity assessment

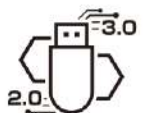


## Write Protect Solutions

3 Solutions	<h3>1 Whole USB Write Protect</h3>	<h3>2 CD-ROM Dual Partition</h3>	<h3>3 Whole SD Write Protect</h3>
3 Gains	 <p>Hardware-level protected against any modifications.</p>	 <p>Hardware-level protected primary partition for OS bootup or autorun programs.</p>	 <p>Hardware-level protected against any modifications.</p>
3 Available Models	<p><b>USB Duplicator</b></p> <p><b>G</b> Golden Series <b>WP</b> Write Protect Series</p>  <p>Requires selected IC models.</p>	<p><b>USB Duplicator</b></p> <p><b>WP</b> Write Protect Series</p>  <p>Requires selected IC models.</p>	<p><b>SD Duplicator</b></p> <p><b>G</b> Golden Series</p> 

## Intelligent 9 U3 Series USB Duplicator and Sanitizer

- Smart Copy**
- PC Monitoring**
- USB-HDD Support**
- Socket Swap**
- Quality Check**
- Speed Check**
- Capacity Check**
- MIL-STD 810G**



**10GB/min.  
Copy Speed**

### Features

- Operates without the use of a PC. Standalone.
- Supports a variety of USB 2.0/3.0/3.1/3.2 devices and external USB HDDs.
- Exhibits speeds up to 10 GB/min. With increased targets, the duplicator will degrade the speed to create a successful copy.
- Supports all types of data format copying while doing bit for bit duplication.
- Supports "quick copy" for Linux (ext2/ext3/ext4/lvm), Windows (NTSF, FAT 16/32/64), and Mac (HFS, HFS+, HFSX).
- Supports 3TB+ capacity for external USB HDDs.
- Supports eUSB (USB-DOM) 2.54mm and 2.00mm via adapter.
- Calculates the MD5 hash of the entire drive so users can quickly verify the source data is intact. (Available in G Series)
- Integrates a log report management system for record purposes. (Available in G & V Series)



# Product Introduction

## Duplicators for Industrial Purposes / Embedded Industry

### SATA DOM Duplicator



#### Features

- Standalone operation, no PC required.
- Speed transfers up to 3.9GB/min.
- Systems & Files mode supports Windows (FAT16/32/64/NTFS), Linux (ext2/ext3/ext4), and Mac (HFS/HFS+/HFSX).
- Whole media copy mode supports all kinds of formats.
- Special socket design for IPC storage use.
- 3 types of DOM adapters :
  1. Standard DOM adapter.
  2. Pin-7 DOM adapter.
  3. Pin-8 DOM adapter.

**3.9GB/min.  
High Speed**



#### Supports Various Interfaces via Adapters



SATA DOM



IDE DOM



microSATA



CFast Card



mSATA



NGFF(SATA)



CF Card

Remark : Please confirm the power supply of your device before copying.



## Carry Mini Series

### CF121/CFast121



CF1-1 duplicator was designed with diversified media compatibility and high-speed performance in mind to not only flawlessly duplicate large capacity targets, but it is also portable so that you can copy CF cards anywhere.

#### Features

- Ultra-high transmission speed.
- Real time multi-tasking process capability.
- Non-PC based with no risk of malware infection
- One touch copy. Real time information will be displayed on the LCD screen.
- Ultra high-speed bit-for-bit hardware comparison.
- Small footprint design allows for portability.



### SD312N/SD300



Four words that describe the SD300: portable, standalone, fast, and convenient. Effectively back up and clone data right in the palm of your hand. Added capabilities such as media checking, erasing, and data verification offer flexibility to ensure control over data integrity.

#### Features

- A lightweight, user-friendly design.
- Full portability when equipped with 4 optional AA batteries.(SD300)
- Quick Copy supports Windows (FAT16/32/64/NTFS), Linux (ext2/ext3/ext4), and Mac (HFS/HFS+/HFSX).
- Secure erase function adheres to the SD Association's purge algorithm.
- Supports power banks (SD312N)











SD312N



SD300



# USB Drive Duplicator Comparison Chart

Series	  Intelligent 9 U3 Series	  Intelligent 9 USB Silver Series	  Intelligent 9 USB Golden Series	  Intelligent 9 USB Write Protect Series
<b>Functions</b>				
<b>Specifications</b>				
Target	7~47	4~119	9~119	9~119
Transfer Speed	10GB/min.	2GB/min.	2GB/min.	2GB/min.
Modular Socket	●	●	●	●
<b>Copy/Compare</b>				
Copy	●	●	●	●
Compare	●	●	●	●
Double Source Compare			●	●
<b>Testing</b>				
Media Check	●	●	●	●
Speed Check	●	●	●	●
Capacity Check	●	●	●	●
Burn-in Test	● ( G Series )		●	●
<b>Utility</b>				
Format	●	●	●	●
DoD Erase	●	●	●	●
Real-time PC Monitor	●	●	●	●
Event Log	● ( G & V Series )		●	●
Whole Device Write Protection	● ( G Series )		●	●
Set CD-ROM Partition				●
<b>Supported Device</b>				
USB	●	●	●	●
USB-HDD	●	●	●	●
OTG (Change Socket)	●	●	●	●

● Native Support    ○ Optional Adapter Required





# SD Card Duplicator Comparison Chart

Series	 Intelligent 9 SD/MicroSD Silver Series	 Intelligent 9 SD/MicroSD Golden Series
Functions		
<b>Specifications</b>		
Target	7~119	7~119
Transfer Speed	2GB/min.	2GB/min.
Modular Socket	●	●
<b>Copy/Compare</b>		
Copy	●	●
Compare	●	●
Double Source Compare		●
<b>Testing</b>		
Media Check	●	●
Speed Check	●	●
Capacity Check	●	●
Burn-in Test		●
<b>Utility</b>		
Format	●	●
DoD Erase	●	●
Real-time PC Monitor	●	●
Event Log		●
Whole Device Write Protection		●
Set CD-ROM Partition		
<b>Supported Device</b>		
SD Card	●	●
MicroSD Card	●	●
CF Card		
CFast Card		

● Native Support    ○ Optional Adapter Required


# CF Card Duplicator Comparison Chart

Series	 Intelligent 9 CF Silver Series	 Intelligent 9 CF Golden Series
Functions		
<b>Specifications</b>		
Target	3~119	8~119
Transfer Speed	3.9GB/min.	3.9GB/min.
Modular Socket	●	●
<b>Copy/Compare</b>		
Copy	●	●
Compare	●	●
Double Source Compare		●
<b>Testing</b>		
Media Check	●	●
Speed Check	●	●
Capacity Check	●	●
Burn-in Test		●
<b>Utility</b>		
Format	●	●
DoD Erase	●	●
Real-time PC Monitor	●	●
Event Log		●
Whole Device Write Protection		
Set CD-ROM Partition		
<b>Supported Device</b>		
SD Card		
MicroSD Card		
CF Card	●	●
CFast Card	○	○

● Native Support    ○ Optional Adapter Required



# CFast Card Duplicator Comparison Chart

Series	 Intelligent 9 CFast Silver Series	 Intelligent 9 CFast Golden Series
Functions		
<b>Specifications</b>		
Target	3~119	8~119
Transfer Speed	3.9GB/min.	3.9GB/min.
Modular Socket	●	●
<b>Copy/Compare</b>		
Copy	●	●
Compare	●	●
Double Source Compare		●
<b>Testing</b>		
Media Check	●	●
Speed Check	●	●
Capacity Check	●	●
Burn-in Test		●
<b>Utility</b>		
Format	●	●
DoD Erase	●	●
Real-time PC Monitor	●	●
Event Log		●
Whole Device Write Protection		
Set CD-ROM Partition		
<b>Supported Device</b>		
SD Card		
MicroSD Card		
CF Card		
CFast Card	●	●

● Native Support    ○ Optional Adapter Required

M.2 NVMe/HDD/SSD/SAS HDD Duplicator

# M.2 NVMe/HDD/SSD Duplicator





## PE/PE-H Series

### M.2/U.2 PCIe NVMe Duplicator

- NVMe Protocol
- SATA Protocol
- Supports M.2/U.2
- Supports GPT
- DoD Erase
- Log Report
- Skips Bad Sectors
- Auto Power Control
- MIL-STD 810G

**PE**  
24GB/min.  
Copy Speed



PE600/H

**PE-H**  
60GB/min.  
Copy Speed



PE2100/H



Model	PE600/H	PE1100/H	PE1600/H	PE2100/H
Target	1 to 5	1 to 10	1 to 15	1 to 20

## PV Series

### M.2 PCIe Slim NVMe Duplicator

- NVMe Protocol
- SATA Protocol
- Supports GPT
- DoD Erase
- Skips Bad Sectors
- Auto Power Control

**10GB/min.**  
Copy Speed



PV400



PV800



Model	PV400	PV800
Target	1 to 3	1 to 7

## PW Series

### Dual-interfaces

### M.2/SATA PCIe SSD Duplicator

- NVMe Protocol
- SATA Protocol
- Supports GPT
- DoD Erase
- Skips Bad Sectors
- Auto Power Control

**18GB/min.**  
Copy Speed



PW1200H



Model	PW800H	PW1200H
Target	1 to 7	1 to 11

## Mini Series

### PC-Link • Source Image Management

### M.2/SATA PCIe SSD Duplicator

- NVMe Protocol
- SATA Protocol
- Supports GPT
- DoD Erase
- Image Mgmt.
- Skips Bad Sectors
- Auto Power Control
- PC Connect

**24GB/min.**  
Copy Speed



PP281

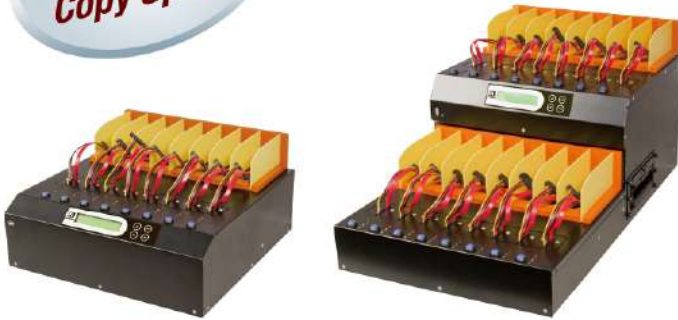


Model	PP281
Target	1 to 1

## MTS-SAS Series SAS/SSD/HDD Duplicator

- Supports up to 18TB
- Supports GPT
- DoD Erase
- Log Report
- Skips Bad Sectors
- Auto Power Control
- Rejects Slow Device
- MIL-STD 810G

**18GB/min.**  
Copy Speed



MTS800SAS

MTS1600SAS

Model	MTS800SAS	MTS1600SAS
Target	1 to 7	1 to 15

## IT Series SATA SSD/HDD Duplicator

- Supports up to 18TB
- Supports GPT
- DoD Erase
- Log Report
- Skips Bad Sectors
- Auto Power Control
- Rejects Slow Device
- MIL-STD 810G



IT700

IT1500

**9GB/min.**  
Copy Speed

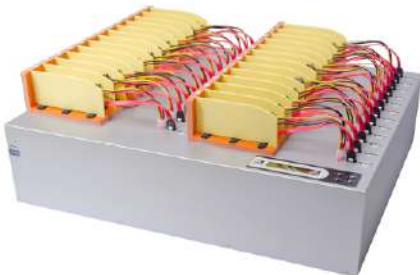
**18GB/min.**  
Copy Speed

**30GB/min.**  
Copy Speed

Model	IT300G/H/U	IT700G/H/U	IT1500G/H/U
Target	1 to 3	1 to 7	1 to 15

## MT Series SATA SSD/HDD Duplicator

- Supports up to 18TB
- Supports GPT
- DoD Erase
- Log Report
- Skips Bad Sectors
- Auto Power Control
- Rejects Slow Device
- Daisy Chain (MT-CF)
- MIL-STD 810G



MT2400G/H

**9GB/min.**  
Copy Speed

**18GB/min.**  
Copy Speed

**30GB/min.**  
Copy Speed

Model	MT800G/H/U	MT1600G/H	MT2400G/H
Target	1 to 7	1 to 15	1 to 23

## MT-CRU Series SATA SSD/HDD Duplicator

- Supports up to 18TB
- Supports GPT
- DoD Erase
- Log Report
- Skips Bad Sectors
- Auto Power Control
- Rejects Slow Device
- Daisy Chain (MT-CF)
- MIL-STD 810G



MT1600H CRU

MT800H CRU

**15GB/min.**  
High Speed

Model	MT800H CRU	MT1600H CRU
Target	1 to 7	1 to 15

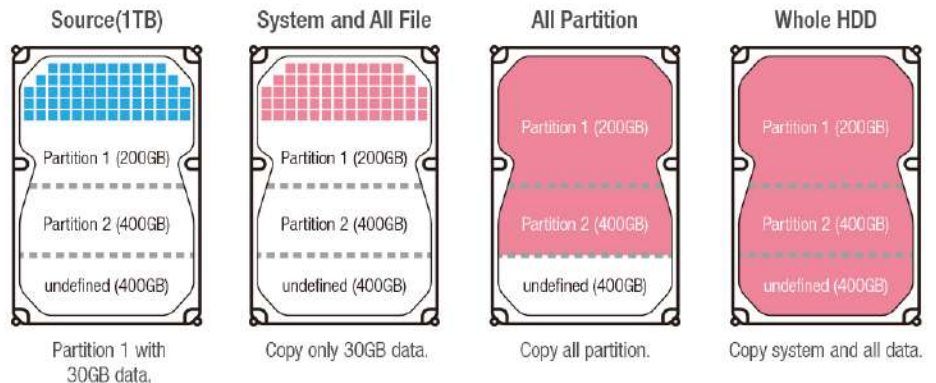


## Intelligent Duplication Modes

The U-Reach HDD/SSD duplicator offers a wide range of duplication modes. The user may select the appropriate mode based on application demand.

### Illustration of Copy Modes

The areas containing data are marked in blue. The areas being copied are marked in red. Duplication time depends on the speed supported by the hard drive's controller chip.

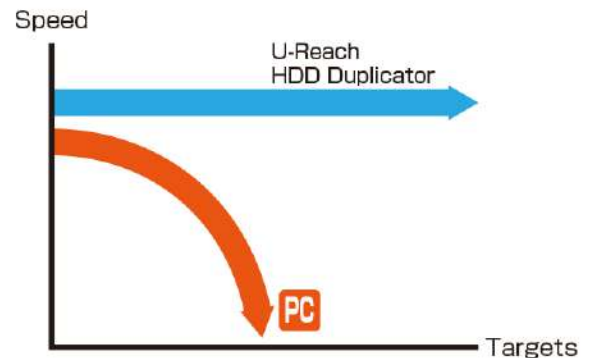


## No Speed Degradation

U-Reach duplicators integrate a multi-tasking, FPGA chip design, which contributes to consistent speeds.

## High Compatibility

- Quick copy mode supports Windows (FAT16/32/64), Linux (ext2/ext3/ext4/lvm), and Mac (HFS/HFS+/HFSX) formats.
- Whole media copy mode supports all system and proprietary formats.
- Supports various brands.
- Designed to support 18TB+ capacities.
- Supports MBR and GPT partitioning.



## Auto Rejection of Slow Devices

U-Reach duplicators enable end-users to set the minimum writing speed threshold. This feature was developed to prevent and eliminate problematic devices that halt the duplication the sanitizing process.



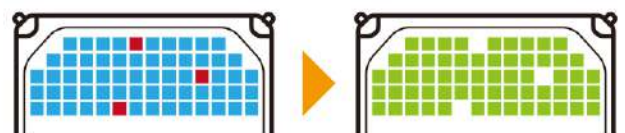
## Verification of Data Integrity

U-Reach duplicators make straightforward copies, but it is imperative that the copied data are verified through a bit-by-bit process, this will ensure successful copies and reduce customer recalls.

```
Pass:20 Fail:0 40:00
CRC:7073923CEBDF7B58
```

## Skipping Bad Sectors

End-users are given the option to skip bad sectors from the source device. Access the function to select the number of bad sectors to skip, from 0 through unlimited.



## Optional Adapters Supported



SATA DOM



Panasonic CF Adapter



Micro SATA



CFast Card



mSATA



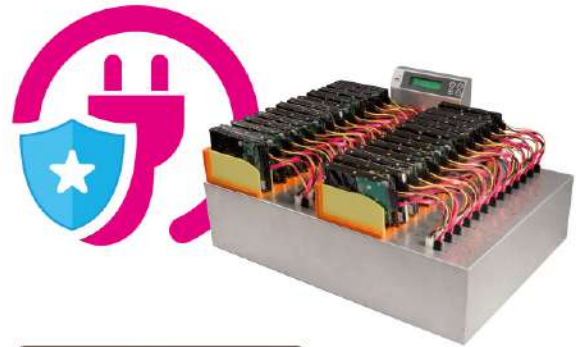
NGFF(SATA)



eSATA



1.8 ZIF Adapters



## Auto Power Control

This feature activates when the connected devices complete the initiated tasks; the power will automatically shut off for safe device removal.

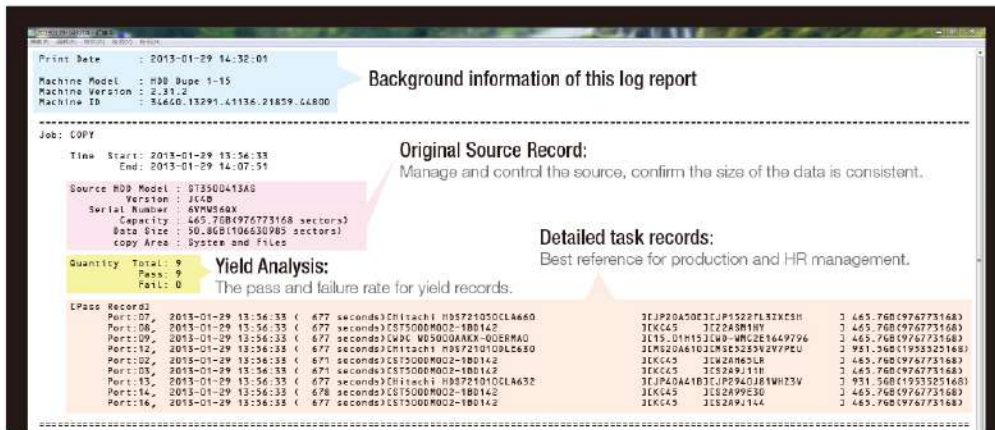
## Real-Time Monitoring

When connected to a computer, the end-user can remotely monitor the operation status.



## Event Log Report

The U-Reach HDD/SSD duplicator has a unique mechanism to prevent alteration of its event log report. It records the operation results and other information from each device completely. It is an important asset for production management and analysis.



Offers exportable log reports via a USB drive. The reports can be exported in .txt, .csv, and .xml formats.





## PV Series M.2 PCIe NVMe Duplicator

The new generation PV Series PCIe duplicator is designed specifically for M.2 SSD users. It is adopted a unique multitasking technology that can simultaneously copy up to 23 M.2 PCIe targets with a transfer speed of 10 GB per minute.



### Features

- Stand-alone, FPGA-based operation (Non-PC based system design).
- Embedded controller is designed to support capacities over 18TB+.
- Supports Native NVMe and M.2 SATA protocol.
- Peak transfer speeds up to 10 GB/min
- Dedicated bandwidth enables high-volume replications without speed degradation.
- Constant improvement supports latest market-available devices.
- Modular ports can be replaced quickly, which effectively reduces downtime and promotes a cost-effective, long-term ownership.



PV800



## PW Series Dual-interface M.2/SATA PCIe SSD Duplicator

The feature for PW series is that flexible platform-based design allows acceptance of external HDD enclosures and can duplicate various devices. PW series is the best choice for user with various type of storage devices to make efficient and high-volume copies.



### Features

- Stand-alone, FPGA-based operation (Non-PC based system design).
- Embedded controller is designed to support capacities over 18TB+.
- Supports Native NVMe and M.2 SATA protocol.
- Transfer Speed up to 18GB per minute in duplication.
- Dedicated bandwidth enables high-volume replications without speed degradation.
- Constant improvement supports latest market-available devices.
- Modular ports can be replaced quickly, which effectively reduces downtime and promotes a cost-effective, long-term ownership.
- Auto-detect NVMe & SATA signal facilitates cross interface / signal duplication.



PW1200  
PW1200H



## PE/PE-H Series M.2/U.2 PCIe NVMe Duplicator

U-Reach PCIe SSD duplicators utilize two integrated chipsets to create flexibility in switching between NVMe and SATA protocols.

### Features

- Operates without needing a PC. Standalone
- Supports hot swapping.
- Supports PCIe M.2 SSD with B+M Key and M Key.
- Supports optional SATA/U.2/Mini PCIe interface adapters.
- Supports optional internal storage for saving images.
- Supports optional internal storage for saving images.
- Features event log reporting.
- Supports firmware updating for latest device support.



PE600  
PE600H



PE1100  
PE1100H



PE2100  
PE2100H

- NVMe Protocol
- SATA Protocol
- Supports M.2/U.2
- Supports GPT
- Log Report
- DoD Erase
- Skips Bad Sectors
- Auto Power Control
- MIL-STD 810G

### Supported Interfaces

Interface	M.2 (NGFF)	U.2		Mini PCIe (mSATA)	PCIe
Photo of Devices					
Signals	NVMe, AHCI, SATA	NVMe		NVMe, AHCI, SATA	NVMe, AHCI
Adapters					
Model. No.	TB1587	TB1589V2 (PE)	TB1660 (PE-H)	TB1608	TB1568



## MT-SAS Series

### SAS & SATA HDD/SSD Duplicator and Data Eraser

Specially designed for high volume data duplication and erasure.

- 18 TB HDD
- Supports GPT
- DoD Erase
- Log Report
- Skips Bad Sectors
- Auto Power Control
- Rejects Slow HDD
- Fast Erase Key
- MIL-STD 810G

Model	MTS800SAS	MTS1600SAS
Target	1 TO 7	1 TO 15

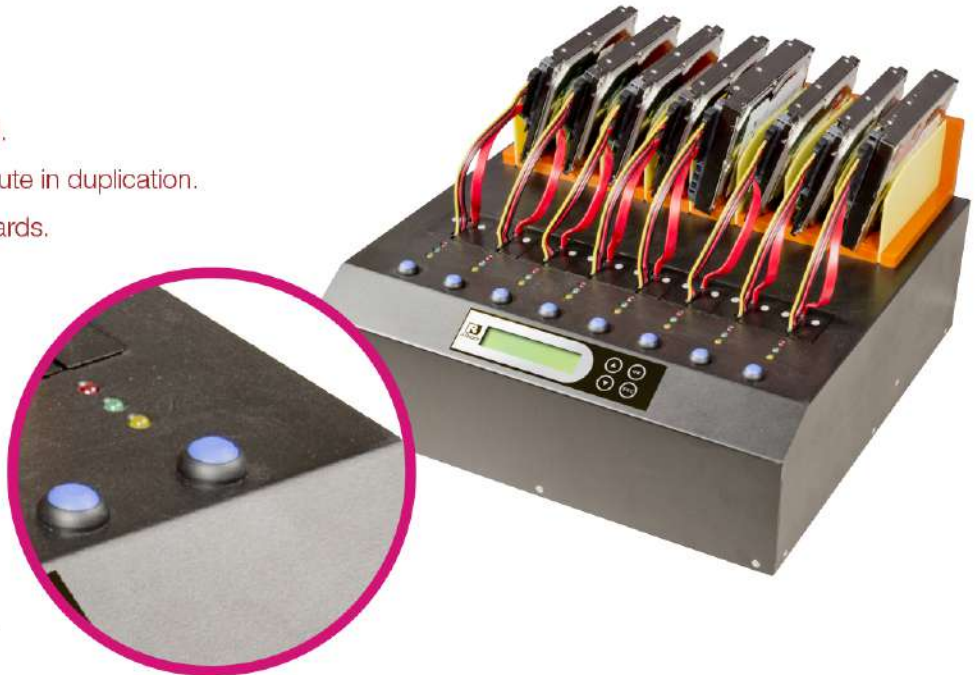
#### Features

- Supports 2.5", 3.5" SATA, HDD, SSD.
- Speed transfers up to 18 GB per minute in duplication.
- DoD5220-M and NIST 800-88 standards.
- Supports asynchronous erase.
- Log Report Management records all task details.

#### Fast Erase Key

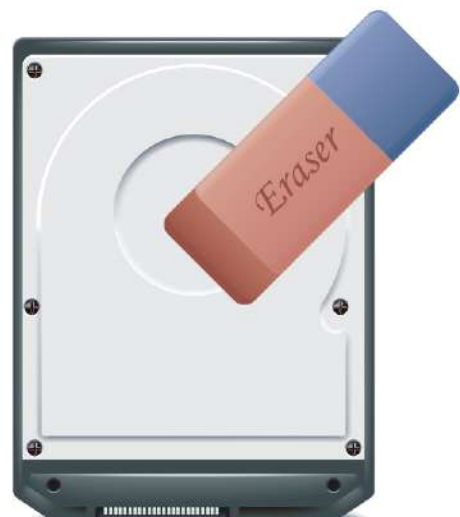
Just a touch to erase.

Fast Erase Key enables the end-user to perform erase functions asynchronously.



#### Various Sanitization Modes :

Quick Erase	Full Erase	DoD Erase	DoD EraseComp	7-Pass Erase
Secure Erase	Enhanced Secure Erase	NSA Erase		
US Army AR380-19	Sanitize Block Erase (for SAS)	Sanitize Purge (for SAS)		



## SATA HDD/SSD Duplicator

U-Reach's complete range of SATA duplicators were developed by customer requirements. These projects resulted in the creation of the IT series for efficient production, MT series for flexible production, and the Mini series for portability.

### Features

- System and Files mode supports Windows (FAT 16/32/64, NTFS), Linux (ext2/ext3/ext4/lvm), and Mac (HFS/HFS+/HFSX).
- Sanitization Modes: Quick Erase, Full Erase, DoD Erase, and Secure Erase.
- Open platform design supports multi-interface devices.
- Log Report management records all task details for enhanced production management.
- Speed transfers up to 30 GB per minute.

### MT Series

U-Reach MT series duplicators are designed to handle different interfaces and format factors with the flexibility to support application demands.

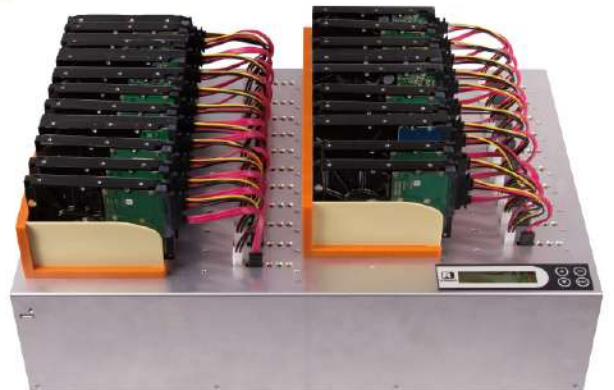
18 TB HDD	Supports GPT	DoD Erase	Log Report	Skips Bad Sectors	Auto Power Control	Rejects Slow HDD	MIL-STD 810G
-----------	--------------	-----------	------------	-------------------	--------------------	------------------	--------------

Model	MT800G/H/U	MT1600G/H/U	MT2400G/H/U
Target	1 to 7	1 to 15	1 to 23

**MT-G**  
9GB/min.  
Copy Speed

**MT-H**  
18GB/min.  
Copy Speed

**MT-U**  
30GB/min.  
Copy Speed



### IT Series

The unique guiderail design enables the user to connect and remove the HDD easily during duplication.

18 TB HDD	Supports GPT	DoD Erase	Log Report	Skips Bad Sectors	Auto Power Control	Rejects Slow HDD
-----------	--------------	-----------	------------	-------------------	--------------------	------------------

Model	IT300G/H/U	IT700G/H/U	IT1500G/H/U
Target	1 to 3	1 to 7	1 to 15

**IT-G**  
9GB/min.  
Copy Speed

**IT-H**  
18GB/min.  
Copy Speed

**IT-U**  
30GB/min.  
Copy Speed





## CRU MT Duplicator

U-Reach's CRU HDD duplicator offers a variety of duplication modes. The user may select the appropriate mode based on application demand.

### Features

- Speed transfers up to 15 GB per minute.
- System and Files mode supports Windows (FAT 16/32/64, NTFS), Linux (ext2/ext3/ext4/lvm), and Mac (HFS/HFS+/HFSX).
- Data Sanitization: quick erase, full erase, secure erase, and DoD erase.
- Open platform design supports multi-interface CRU HDD, SATA 2.5" drives, SATA 3.5" drives, and SATA SSD (all with DX115).
- Log report management records all task details for better production management.
- "Daisy-Chain" technology makes production more efficient as the number of connections increase(Patent No.: US 9,349,408 B2)

**15GB/min.  
High Speed**



MTC1500FCRU

MT800HCRU

## Mini Series

### SATA & IDE HDD/SSD Duplicator and Sanitizer

#### Features

- Copy with one source and up to three targets
- Copy speed up to 30 GB/min.
- Auto skip an unlimited amount of bad sectors
- Auto power control protects your HDD (HDD is only powered during operation)
- Supports 2.5", 3.5" SATA HDD, SSD and IDE HDD via IDE Adapter (1 piece IDE to SATA adapter-TB1529 included)
- Supports 3 different duplication modes: Quick Copy (System & files), All partitions and Whole HDD
- The Quick Copy mode supports: Linux(ext2/ext3/ext4/lvm), NTFS, FAT16/32. GPT and Dynamic HDD Also, it copies only the data and systems area, which highly increases the copy efficiency.
- Auto detects and shows the bad sector quantity
- Lightweight portable design



PRO118  
(SATA)



PRO218  
(SATA)



PRO318  
(SATA)



SA310  
(SAS/SATA)

### M.2 NVMe/SATA Duplicator and Sanitizer

#### Features

- Speed transfers up to 24 GB per minute.
- Systems & files copy mode supports Windows(FAT16/32/64, NTFS), Linux(ext2/ext3/ext4/lvm), Mac(HFS, HFS+, HFSX.)
- Data Sanitization: Quick Erase, Full Erase, Secure Erase, DoD Erase, and DoD Erase + Compare.
- Open platform design supports NVMe and SATA protocols.
- Supports 1-1 cross-interface copy.
- Supports M key and B+M key M.2 for SATA and NVMe 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 PP281.

**24GB/min.  
High Speed**

PP281  
(M.2 NVMe/SATA)



Connect to PC via Type-C

Model	SP151	PP281
Target	1 to 1	1 to 1





# PCIe SSD Duplicator Comparison Chart

Series			
Functions	PE/PE-H	PV	PW/PW-H
<b>Specifications</b>			
Available Targets	5/10/15/20	3/7/11/23	7/11
Transfer Speed	24GB/min.(PE) 60GB/min.(PE-H)	10GB/min.	9GB/min.(PW) 18GB/min.(PW-H)
Rail-Guided Ports			● (SATA)
Scalable/Daisy Chain			
<b>Copy/Compare</b>			
Copy	●	●	●
Compare	●	●	●
<b>Functions</b>			
Auto Power Control	●	●	●
Auto-detect to Protocol	●	●	●
CRC Checksum	●	●	●
DoD Erase	●	●	●
Secure Erase	●	●	●
Internal SSD Storage	●		
Real-Time Monitor	●		
Event Log	●		
<b>Supported Devices</b>			
2.5"/3.5" IDE HDD			○
2.5" SATA HDD/SSD	○		●
3.5" SAS HDD			
CRU HDD			
mSATA SSD	○		○
eSATA	○		○
micro SATA SSD			●
M.2 SATA SSD	●	●	●
M.2 PCIe SSD	●	●	●
U.2 PCIe SSD	○		
CFast			
1.8 ZIF HDD			

● Native Support    ○ Optional Adapter Required




# HDD Duplicator Comparison Chart

Series	 MTS-SAS	 IT-G/H/U
Functions		
<b>Specifications</b>		
Available Targets	7/15	3/7/15
Transfer Speed	18GB/min.	9GB/min.(IT-G) 18GB/min.(IT-H) 30GB/min.(IT-U)
Rail-Guided Ports		●
Scalable/Daisy Chain		
<b>Copy/Compare</b>		
Copy	●	●
Compare	●	●
<b>Functions</b>		
Auto Power Control	●	●
Auto-Reject Slow Devices	●	●
CRC Checksum	●	●
DoD Erase	●	●
Secure Erase	●	●
Internal SSD Storage		
Real-Time Monitor	●	●
Event Log	●	●
<b>Supported Devices</b>		
2.5"/3.5" IDE HDD	○	○
2.5"/3.5" SATA HDD	●	●
2.5" SSD HDD	●	●
3.5" SAS HDD	●	
CRU HDD		
mSATA SSD	○	○
eSATA	○	○
micro SATA SSD	○	
M.2 SATA SSD	○	○
M.2 PCIe SSD		
U.2 PCIe SSD		
CFast	○	○
1.8 ZIF HDD	○	○

● Native Support    ○ Optional Adapter Required



# HDD Duplicator Comparison Chart

Series			
Functions	MT-G/H/U	MTC	MT-CRU
<b>Specifications</b>			
Available Targets	7/15/23	15	15
Transfer Speed	9GB/min.(MT-G) 18GB/min.(MT-H) 30GB/min.(MT-U)	9GB/min. 15GB/min.	9GB/min. 15GB/min.
Rail-Guided Ports			
Scalable/Daisy Chain		●	●
<b>Copy/Compare</b>			
Copy	●	●	●
Compare	●	●	●
<b>Functions</b>			
Auto Power Control	●	●	●
Auto-Reject Slow Devices	●	●	●
CRC Checksum	●	●	●
DoD Erase	●	●	●
Secure Erase	●	●	●
Internal SSD Storage			
Real-Time Monitor	●	●	●
Event Log	●	●	●
<b>Supported Devices</b>			
2.5"/3.5" IDE HDD	○	○	
2.5"/3.5" SATA HDD	●	●	
2.5" SSD	●	●	
3.5" SAS HDD			
CRU HDD			●
mSATA SSD	○	○	
eSATA	○	○	
micro SATA SSD	○	○	
M.2 SATA SSD	○	○	
M.2 PCIe SSD			
U.2 PCIe SSD			
CFast	○	○	
1.8 ZIF HDD	○	○	

● Native Support    ○ Optional Adapter Required

Blu-ray/DVD/CD Duplicator & Controller

# Blu-ray / DVD / CD Duplicator / Controller





## Blu-Ray/DVD/CD Duplicator Controller

### BD18 Series



BD1802  
(1 : 1)



BD1806  
(1 : 5)



BD1809  
(1 : 7)



BD1812  
(1 : 11)

### uPRO (P7) Series



P701  
(1 : 1)



P707  
(1 : 7)



P711  
(1 : 11)

## BD Series

U-Reach BD Series duplicator is the easiest and fastest ever tool for copying data from disc-to-discs, providing high-speed and stable copy quality.



### Features

- Compatible with all disc formats: CD/DVD/Blu-ray/BDXL.
- Small footprint with dual board for power and signal control.
- On Board 64-bit 128MB DDR2 memory and 32-bit core processor to ensure reliable high-speed copy.
- Standalone, no PC or additional software are required.
- Supports seven different language interfaces.
- Perform straightforward firmware updates.



## uPRO (P7) Media Maker

uPRO is an outstanding piece of equipment that offers end-users flexibility for data replication. With a user-friendly interface, the uPRO can help you easily back up or clone your Disc or Flash devices.

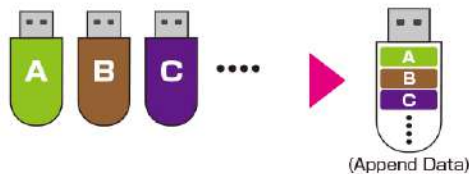
### Features

- Supports M-Disc that can retain data for one thousand years.
- Offers 4 flexible copy methods all in one unit
- Supports disc-to-USB/Flash copy method. Load different discs one-by-one into the designated drive to append copy to USB/Flash device.
- Operates without requiring a PC. Standalone.
- Supports SD, CF, SDHC, MicroSD source or target through a USB card reader (Only supports FAT16/32 Format).
- Supports USB/Flash multi-session copy to disc.
- Supports USB/Flash to append copy.

### 4 Applications

#### USB to USB ( Append Data )

Collect various flash devices to one USB.



#### Disc to Disc ( Disc Duplication )

Disc Duplication.



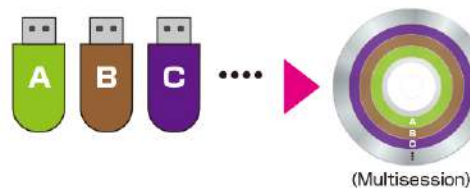
#### Disc to USB ( Append Data )

Multi-Source Disc append copy to USB.



#### USB to Disc ( Multisession )

Backup flash drives to disc.





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# Notes

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# Notes

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U-Reach products have been widely used in various industries for best practice.  
Please visit our website for more detailed information about our product lines.  
We welcome your feedback about U-Reach's products, and look forward to  
developing mutually beneficial partnerships with you.



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