

NV-BM High-Speed Series PCIe Duplicator and Sanitizer



Product Features

Features	Descriptions
Operation Type	Stand-alone, FPGA-based operation (Non-PC based system design).
Controller Design	- Embedded controller is designed to support capacities over 18TB+. - Constant improvement supports latest market-available devices.
Protocols Supported	Supports Native NVMe (Gen 3 & Gen 4 & Gen 5) and Native SATA protocol.
Hot Swap Supported	Supports hot swapping of devices.
Bandwidth Performance	- Speed transfers of up to 60.0GB/min (1000 MB/s). - Dedicated bandwidth enables high-volume replications without speed degradation.
Read-Only Source Port	Built-in feature to protect source device data.
Cable-free Hardware Design	Modular-designed ports effectively reduce downtime and is cost-effective for long-term ownership.
Image Management	Allows user to transfer multiple master images from PC and store them in the duplicator's internal storage device.
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.

Product Models

Photos	Models	Target Ports
	NV-BM600H	1:5
	NV-BM1100H	1:10
	NV-BM1600H	1:15
	NV-BM2100H	1:20

Product Functions

Functions	Descriptions
4 Copy Modes	• <u>Quick Copy (Data & System)</u>: Supports Windows, Mac, and Linux. • <u>All Partitions</u>: Users can skip HPA or unknown partitions. • <u>Whole Device</u>: Copies bit-by-bit from the master device. • <u>Percentage Copy</u>: Users can set percentages of capacity to be copied.
Compare (Verification)	• Bit-by-bit data comparison from the source device to target device(s).
5 Sanitization Modes	• Quick Erase • Full Erase (NIST 800-88) • DoD3 Pass (DoD 5220.22-M) • DoD3 Pass+Compare (DoD 5220.22-M) • Secure Erase (NIST 800-88)
Skip Bad Sectors	• Choose the number of bad sectors to skip.
Unknown Format	• Choose to copy or skip unknown formats.
Erase Source Port	• Enable or disable source port from being erased.
Device Power-up	• Choose time to wait for the device to power up prior to copy, erase, etc.
Device Power-down	• Choose time to wait for the device to power down prior to disconnection.
Scroll Lock	• Disable or enable ▲ and ▼ buttons on the control panel.
Language	• English or Japanese.
Log Manager	• Manage and export log reports.

Product Compatibilities

Compatibilities	Descriptions
Compatible Devices	• NGFF (M.2): 2230, 2242, 2260, 2280, 3030, 3042, 3060, 3080, and PCI-e SSD (full and low profiles). • Supports B+M Key or M Key Only
Compatible Devices (Requires Optional Adapters)	• SATA HDD/SSD, U.2 (SFF8639) and U.3. Refer to Replacement Parts.
Supported Formats	• Quick Copy Function: FAT16/32/64, Windows (NTFS), Linux (Ext2/Ext3/Ext4), and Mac (HFS, HFS+, HFSX). • Whole Device Copy Function: All Formats, including proprietary formats. • GPT, MBR, and Advanced Formats.
Compatibilities	Descriptions
Supported O/S	• All (Windows, Mac, Linux, and other proprietary systems).

Product Specifications

Specifications	Descriptions
LCD Display	• Backlit Monochrome LCD Display
LEDs	• 3 LED Indicators per Port: • Yellow (Power), Green (Pass), and Red (Fail)
Control Panel	• 4 Push Buttons (▲, ▼, OK, ESC)
Power Requirements	• <u>Universal Power</u>: 115VAC or 230VAC, 50/60Hz
Operational Temperature	• 0°C ~ 60°C (32°F ~ 140°F)
Non-operational Temperature	• -20°C ~ 85°C (-4°F ~ 185°F)
Humidity	• <u>Operating</u>: 20% ~ 95%, non-condensing • <u>Non-operating</u>: 5% to 95%, non-condensing
Packaging Dimensions (L×W×H)	• <u>NV-BM600H</u> - 239.78 mm x 265.18 mm x 152.4 mm (17 in. x 16.5 in. x 15.5 in.) • <u>NV-BM1100H</u> - 571.5 mm x 444.5 mm x 387.35 mm (22.5 in. x 17.5 in. x 15.25 in.) • <u>NV-BM1600H</u> - 622.3 mm x 584.2 mm x 330.2 mm (24.5 in. x 23 in. x 13 in.) • <u>NV-BM2100H</u> - 622.3 mm x 584.2 mm x 330.2 mm (24.5 in. x 23 in. x 13 in.)
Product Weight	• <u>NV-BM600H</u> - 9.07 kg (20.0 lbs.) • <u>NV-BM1100H</u> - 14.97 kg (33.0 lbs.) • <u>NV-BM1600H</u> - 22.45 kg (49.5 lbs.) • <u>NV-BM2100H</u> - 22.91 kg (50.5 lbs.)
Certifications	• FCC, CE, RoHS, and REACH
MIL-STD-810H	• 500.6 / 501.7 / 502.7 / 507.6

ISO/IEC	• 27037, 27041, 27042, 27043, and 27050
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Product Replacement Parts

Part Numbers	Descriptions
TB1587H	• M.2 NVMe/SATA Socket Replacement
TB1660 (TB1589H)	• U.2/U.3 (NVMe Protocol) Socket
OPTIONS	• Please call us for specific cabling, adapter, and interface requirements.

More Information

For additional details on the U-Reach® NV-BM High-Speed Series, please visit: <http://www.ureach-usa.com>

Specifications are subject to change without notice.