

NV-BM Series

PCIe Duplicator and Sanitizer



Product Features

| Features | Descriptions |
|-----------------------------------|---|
| Operation Type | <ul style="list-style-type: none"> Stand-alone, FPGA-based operation (Non-PC based system design). |
| Controller Design | <ul style="list-style-type: none"> Embedded controller is designed to support capacities over 18TB+. Constant improvement supports latest market-available devices. |
| Protocols Supported | <ul style="list-style-type: none"> Supports Native NVMe and Native SATA protocol. |
| Hot Swap Supported | <ul style="list-style-type: none"> Supports hot swapping of devices. |
| Bandwidth Performance | <ul style="list-style-type: none"> Speed transfers of up to 24.0GB/min. (400MB/sec.) Dedicated bandwidth enables high-volume replications without speed degradation. |
| Read-Only Source Port | <ul style="list-style-type: none"> There is no option to disable this built-in feature and it is integrated with all U-Reach duplicators. |
| Cable-free Hardware Design | <ul style="list-style-type: none"> The rail-guiding module design allows for quick device connections and disconnects. Modular-designed ports effectively reduce downtime and is cost-effective for long-term ownership. |
| Image Management | <ul style="list-style-type: none"> Allows user to transfer multiple master images from PC and store them in the duplicator's internal storage device. |
| Event Log Management | <ul style="list-style-type: none"> 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-BM600 | 1:5 |
|  | NV-BM1100 | 1:10 |
|  | NV-BM1600 | 1:15 |
|  | NV-BM2100 | 1:20 |

Product Functions

| Functions | Descriptions |
|---------------------------------|---|
| 4 Copy Modes | <ul style="list-style-type: none"> • <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) | <ul style="list-style-type: none"> • Bit-by-bit data comparison from the source device to target device(s). |
| 5 Sanitization Modes | <ul style="list-style-type: none"> • Quick Erase • Full Erase (NIST 800-88) • DoD3 Pass (DoD 5220.22-M) • DoD3 Pass+Compare (DoD 5220.22-M) • Secure Erase |
| Skip Bad Sectors | <ul style="list-style-type: none"> • Choose the number of bad sectors to skip. |
| Unknown Format | <ul style="list-style-type: none"> • Choose to copy or skip unknown formats. |
| Erase Source Port | <ul style="list-style-type: none"> • Enable or disable source port from being erased. |
| Device Power-up | <ul style="list-style-type: none"> • Choose time to wait for the device to power up prior to copy, erase, etc. |
| Device Power-down | <ul style="list-style-type: none"> • Choose time to wait for the device to power down prior to disconnection. |
| Scroll Lock | <ul style="list-style-type: none"> • Disable or enable ▲ and ▼ buttons on the control panel. |
| Language | <ul style="list-style-type: none"> • English or Japanese. |
| Log Manager | <ul style="list-style-type: none"> • Manage and export log reports. |
| Switch to SATA/PCIe Mode | <ul style="list-style-type: none"> • Select SATA Express or NVMe protocol. Requires reboot to be in effect. |

Product Compatibilities

| Compatibilities | Descriptions |
|---|--|
| Compatible Devices | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • SATA HDD/SSD and 2 types of U.2 (SFF8639). Refer to Replacement Parts. |
| Supported Formats | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • All (Windows, Mac, Linux, and other proprietary systems). |

Product Specifications

| Specifications | Descriptions |
|------------------------------|---|
| LCD Display | <ul style="list-style-type: none"> • Backlit Monochrome LCD Display |
| LEDs | <ul style="list-style-type: none"> • 3 LED Indicators per Port: • Yellow (Power), Green (Pass), and Red (Fail) |
| Control Panel | <ul style="list-style-type: none"> • 4 Push Buttons (▲, ▼, OK, ESC) |
| Power Requirements | <ul style="list-style-type: none"> • <u>Universal Power</u>: 115VAC or 230VAC, 50/60Hz |
| Operational Temperature | <ul style="list-style-type: none"> • 0°C ~ 60°C (32°F ~ 140°F) |
| Non-operational Temperature | <ul style="list-style-type: none"> • -20°C ~85°C (-4°F ~ 185°F) |
| Humidity | <ul style="list-style-type: none"> • <u>Operating</u>: 20% ~ 95%, non-condensing • <u>Non-operating</u>: 5% to 95%, non-condensing |
| Packaging Dimensions (L×W×H) | <ul style="list-style-type: none"> • <u>NV-BM600</u> - 239.78 mm x 265.18 mm x 152.4 mm (17 in. x 16.5 in. x 15.5 in.) • <u>NV-BM1100</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-BM1600</u> – 622.3 mm x 584.2 mm x 330.2 mm (24.5 in. x 23 in. x 13 in.) • <u>NV-BM2100</u> – 622.3 mm x 584.2 mm x 330.2 mm (24.5 in. x 23 in. x 13 in.) |
| Product Weight | <ul style="list-style-type: none"> • <u>NV-BM600</u> – 9.07 kg (20.0 lbs.) • <u>NV-BM1100</u> – 14.97 kg (33.0 lbs.) • <u>NV-BM1600</u> – 22.45 kg (49.5 lbs.) • <u>NV-BM2100</u> – 22.91 kg (50.5 lbs.) |
| Certifications | <ul style="list-style-type: none"> • FCC, CE, RoHS, and REACH |

| | |
|---------------------|---|
| MIL-STD-810G | <ul style="list-style-type: none"> • 501.5 / 502.5 / 507.5 / 514.6 / 516.6 |
| ISO/IEC | <ul style="list-style-type: none"> • 27037, 27041, 27042, 27043, and 27050 |

Product Replacement Parts

| Part Numbers | Descriptions |
|----------------|---|
| TB1587 | <ul style="list-style-type: none"> • M.2 PCIe Socket Replacement – Compatible with PCIe and SATA Modes |
| TB1569 | <ul style="list-style-type: none"> • SATA Socket (SATA Express Protocol) – SATA Mode Only |
| TB1589 | <ul style="list-style-type: none"> • U.2 (NVMe Protocol) Adapter – PCIe Mode Only |
| TB1593 | <ul style="list-style-type: none"> • U.2 (SATA Express Protocol) Adapter – SATA Mode Only |
| OPTIONS | <ul style="list-style-type: none"> • Please call us for specific cabling, adapter, and interface requirements. |

More Information

For additional details on the U-Reach® NV-BM Series, please visit: <http://www.ureach-usa.com/PCIe-1-to-20.html>

Specifications are subject to change without notice.