

# NV-BM Series PCIe Duplicator and Sanitizer



## Product Features

Features	Descriptions
<b>Operation Type</b>	<ul style="list-style-type: none"> <li>Stand-alone, FPGA-based operation (Non-PC based system design).</li> </ul>
<b>Controller Design</b>	<ul style="list-style-type: none"> <li>Embedded controller is designed to support capacities over 18TB+.</li> <li>Constant improvement supports latest market-available devices.</li> </ul>
<b>Protocols Supported</b>	<ul style="list-style-type: none"> <li>Supports Native NVMe (Gen 3 &amp; Gen 4 &amp; Gen 5) and Native SATA protocol.</li> </ul>
<b>Hot Swap Supported</b>	<ul style="list-style-type: none"> <li>Supports hot swapping of devices.</li> </ul>
<b>Bandwidth Performance</b>	<ul style="list-style-type: none"> <li>Speed transfers of up to 24.0GB/min. (400MB/sec.)</li> <li>Dedicated bandwidth enables high-volume replications without speed degradation.</li> </ul>
<b>Read-Only Source Port</b>	<ul style="list-style-type: none"> <li>There is no option to disable this built-in feature and it is integrated with all U-Reach duplicators.</li> </ul>
<b>Cable-free Hardware Design</b>	<ul style="list-style-type: none"> <li>The rail-guiding module design allows for quick device connections and disconnects.</li> <li>Modular-designed ports effectively reduce downtime and is cost-effective for long-term ownership.</li> </ul>
<b>Image Management</b>	<ul style="list-style-type: none"> <li>Allows user to transfer multiple master images from PC and store them in the duplicator's internal storage device.</li> </ul>
<b>Event Log Management</b>	<ul style="list-style-type: none"> <li>Records: operating durations, individual port copy progressions, connected device models, capacities, serial numbers, and PASS or FAIL results.</li> <li>Device writing/reading speeds are recorded.</li> <li>Log report files are generated through the front USB port and are saved to USB devices.</li> </ul>

## Product Models

Photos	Models	Target Ports
	<b>NV-BM600</b>	1:5
	<b>NV-BM1100</b>	1:10
	<b>NV-BM1600</b>	1:15
	<b>NV-BM2100</b>	1:20

## Product Functions

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

## Product Compatibilities

Compatibilities	Descriptions
Compatible Devices	<ul style="list-style-type: none"> <li>• NGFF (M.2): 2230, 2242, 2260, 2280, 3030, 3042, 3060, 3080, and PCI-e SSD (full and low profiles).</li> <li>• Supports B+M Key or M Key Only</li> </ul>
Compatible Devices (Requires Optional Adapters)	<ul style="list-style-type: none"> <li>• SATA HDD/SSD, 2 types of U.2 (SFF8639) and U.3. Refer to Replacement Parts.</li> </ul>
Supported Formats	<ul style="list-style-type: none"> <li>• Quick Copy Function: FAT16/32/64, Windows (NTFS), Linux (Ext2/Ext3/Ext4), and Mac (HFS, HFS+, HFSX).</li> <li>• Whole Device Copy Function: All Formats, including proprietary formats.</li> <li>• GPT, MBR, and Advanced Formats.</li> </ul>
Compatibilities	Descriptions
Supported O/S	<ul style="list-style-type: none"> <li>• All (Windows, Mac, Linux, and other proprietary systems).</li> </ul>

## Product Specifications

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

<b>Certifications</b>	<ul style="list-style-type: none"> <li>FCC, CE, RoHS, and REACH</li> </ul>
<b>MIL-STD-810H</b>	<ul style="list-style-type: none"> <li>500.6 / 501.7 / 502.7 / 507.6</li> </ul>
<b>ISO/IEC</b>	<ul style="list-style-type: none"> <li>27037, 27041, 27042, 27043, and 27050</li> </ul>

## Product Replacement Parts

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

## More Information

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

Specifications are subject to change without notice.