

Raidon technology Launches MiUM2776P+Dual M.2 NVMe SSD Extension Kit (MCIO+3.5-Inch Swappable Enclosure)

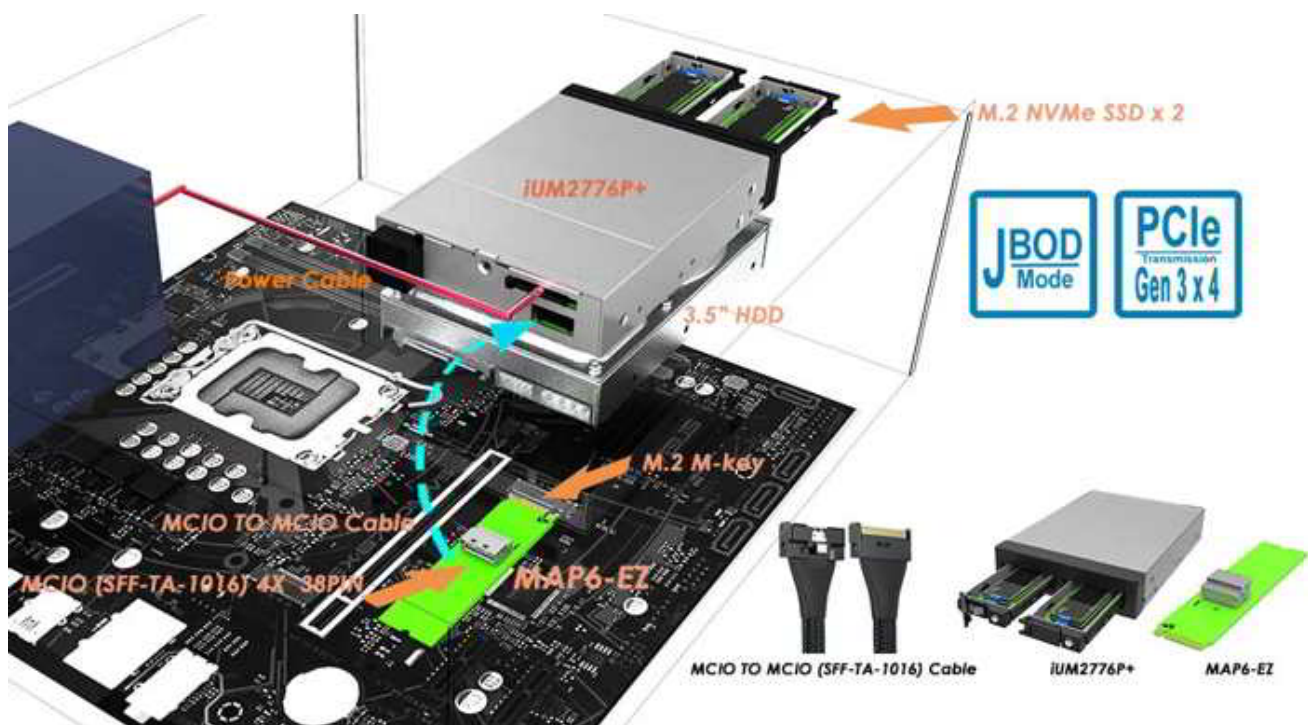
Transform one M.2 slot into serviceable dual-NVMe storage solution

[Raidon Technoloy, Inc.](#) announces the [MiUM2776P+ Dual M.2 NVMe SSD extension kit](#) (MCIO + 3.5" swappable



enclosure). Convert a motherboard M.2 slot into a front-accessible dual-NVMe hot-swap bay – ideal for systems that need serviceability, cabled PCIe routing, and higher NVMe density in a standard 3.5-inch bay without chassis modification.

Unlike bare NVMe enclosures, the MiUM2776P+ includes the **MCIO adapter and cabling** needed for clean PCIe relocation, making it a more complete deployment kit for workstation, server, and edge platforms. It combines the **iUM2776P+ dual-M.2 3.5-inch enclosure**, **MAP6-EZ M.2-to-MCIO adapter**, and **50cm MCIO cable** into one integrated solution.

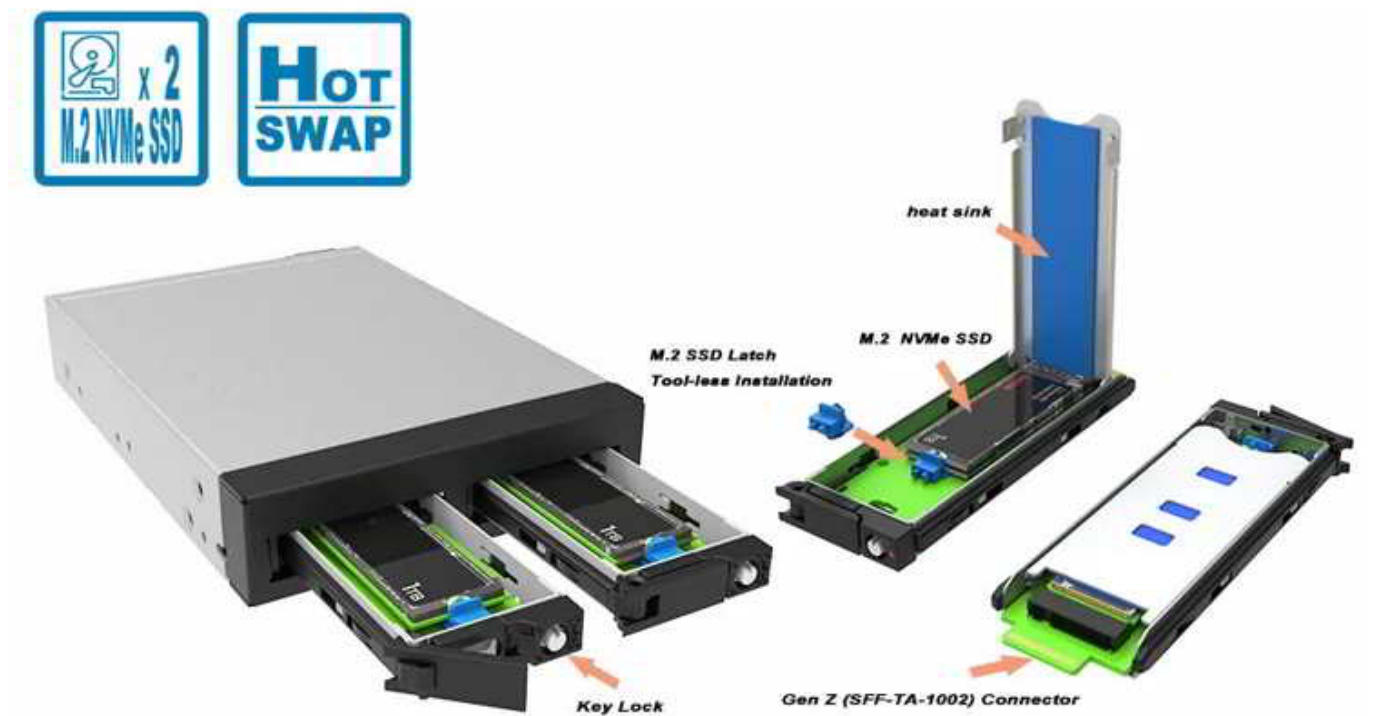


An onboard **PCIe Gen3 switch** provides a **Gen3 x4 uplink** and **Gen3 x2 bandwidth per SSD**, delivering balanced, predictable performance for **JBOD NVMe** workflows. The all-metal enclosure and integrated **20mm low-noise fan** help reduce heat buildup and maintain stable operation under sustained load.

Optimized for **serviceability and MCIO-based PCIe routing** rather than peak PCIe 4.0 throughput, the MiUM2776P+ is best suited to platforms where **front-access NVMe**, **clean cabling**, and **reliable dual-drive operation** matter more than maximum bandwidth. This positioning fits the product's published Gen3 switch

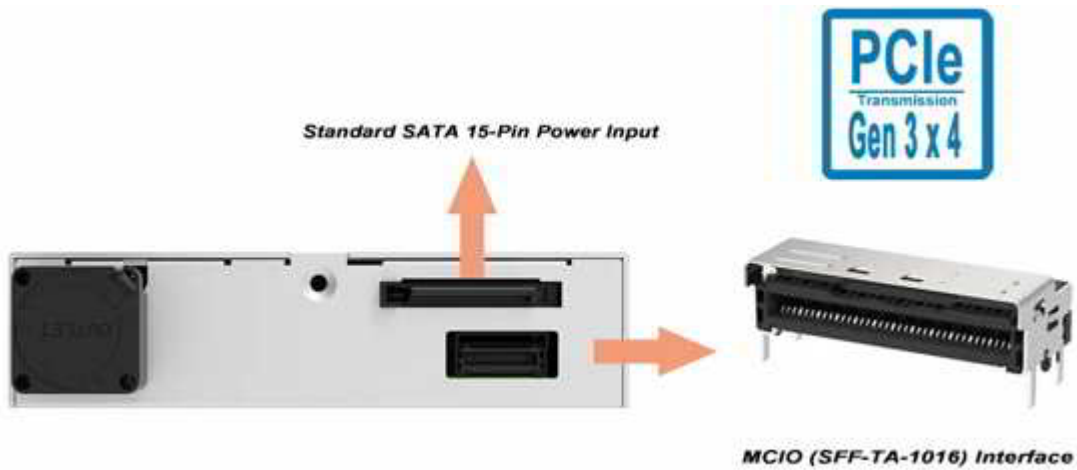
architecture and bundled-kit design.

Key Features:



- **Dual M.2 NVMe Support**

Supports 2 x M.2 NVMe SSDs in 2230, 2242, 2260, and 2280 form factors



- **MCI0 Cabled PCIe Connectivity**

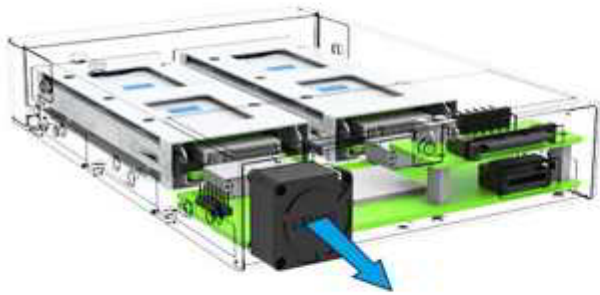
Uses MCI0 (SFF-TA-1016) for clean, high-speed PCIe/NVMe signal routing - ideal for systems that require cabled PCIe instead of fixed onboard slot placement

- **Hot-Swap-Ready Design**

Tool-free, lockable trays support fast SSD replacement on platforms that support NVMe hot-swap

- **PCIe Gen3 Switch Architecture**

An integrated PCIe Gen3 switch enables one upstream PCIe connection to support 2 independent NVMe drives, with balanced lane allocation for predictable dual-drive behavior



All-metal aluminum housing paired with an integrated 2 cm low-noise cooling fan



LED indicators



- **Active Thermal Management**

Metal enclosure and 20 mm low-noise fan help manage thermal buildup and reduce the risk of throttling during continuous operation



- **Standard 3.5" Bay Integration**

Adds dual-NVMe capability through a standard 3.5-inch drive bay, simplifying integration in desktops, servers, and industrial systems

- **JBOD NVMe Architecture**

Presents 2 independent NVMe SSDs to the host; software RAID may be configured at the OS or platform level if needed

Applications:

- **Professional Workstations (Video / CAD / 3D):** Quickly swap 'project' SSDs like media cartridges without opening the chassis; use the dual drives for scratch and archive storage
- **Data Centers / Server Racks:** Increase NVMe density in a standard bay; all-metal enclosure with active cooling supports continuous high-load operation
- **AI / Machine Learning and Analytics:** 2 independent NVMe drives enable fast local dataset access and cache tiers
- **Edge Computing / Industrial Systems:** Rugged enclosure and compact design allow easy service and replacement in space-constrained environments

Why choose MiUM2776P+?

Key feature	Why it matters	Best Practice
Fits standard 3.5" drive bay	Adds dual NVMe capacity without chassis mods	Great for builds where PCIe slots are scarce but 3.5" bays are available
Dual M.2 NVMe (2230-2280)	Higher density + flexible sourcing	Maximize density in one bay while keeping balanced Gen3 x2 per drive behavior
MCIO (SFF-TA-1016) connectivity	Modern cabled PCIe/NVMe routing and signal integrity	Confirm your backplane/HBA provides PCIe lanes via MCIO , not SATA/SAS-only
Active cooling (2cm fan + metal enclosure)	Reduces NVMe throttling under sustained writes	Prefer enterprise-oriented SSDs if you expect 24/7 workloads
Tool-free, lockable trays	Faster service, fewer mistakes	Pre-mount SSDs in spare trays to 'swap-and-go' during maintenance

Frequently Asked Questions FAQ:

Q1: What is the difference between MiUM2776P+ vs. MiUM1776P4?

A: The MiUM2776P+ supports 2 NVMe SSDs and includes an integrated PCIe Gen3 switch. The MiUM1776P4 is a single-drive solution

Q2. Does the MiUM-2776P+ require a driver?

A: No. The MiUM-2776+ does not require driver. PCIe switch is OS-transparent when the platform supports NVMe

Q3. Does the MiUM2776P+ support hardware RAID?

A: No ,The MiUM-2776P+ presents 2 independent NVMe drives; RAID can be implemented via software RAID (OS/BIOS/UEFI)

Q4. Will the MiUM2776P+ work in a SATA/SAS backplane?

A. No. It requires **PCIe lanes via MCIO** and is **not compatible with SATA/SAS signaling**

Product specs:



- A. M.2 NVMe SSD Tray & Tray Handle x 2
- B. Tray Key Lock & Push Open Button
- C. HDD/SSD Access LED



- D. 15-pin Power Connector
- E. MCIO (SFF-TA-1016) Interface
- F. 2cm low-noise fan

Model No.	MiUM2776P + kit
Supported Drive	2 x M.2 NVMe SSDs (2230 / 2242 / 2260 / 2280)
Host Interface	PCIe Gen3 x4 via MCIO (SFF-TA-1016)
Storage Mode	JBOD (each SSD independent)
Max Bandwidth	Up to 3.94GB/s (theoretical payload per direction)
Power	SATA 15-pin
Certification	CE/FCC
Lockable trays	Tool-free for fast SSD install/replace
Cooling	2 cm low-noise fan + metal enclosure
Indicators	Power + drive status LEDs
Dimensions	101.6(W) x 25.6(H) x 146(L) mm
Included Accessories	1 x iUM2776P+ module 1 x MAP6-EZ M.2-to-MCIO adapter 1 x Quick Installation Guide 1 x Accessory Kit (mounting hardware) 1 x MCIO (SFF-TA-1016) to MCIO (SFF-TA-1016) cable, 50cm