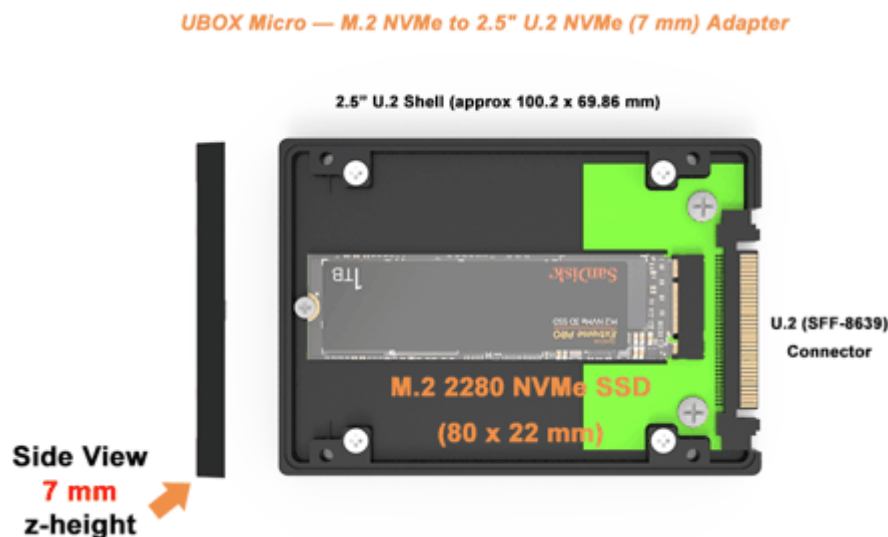


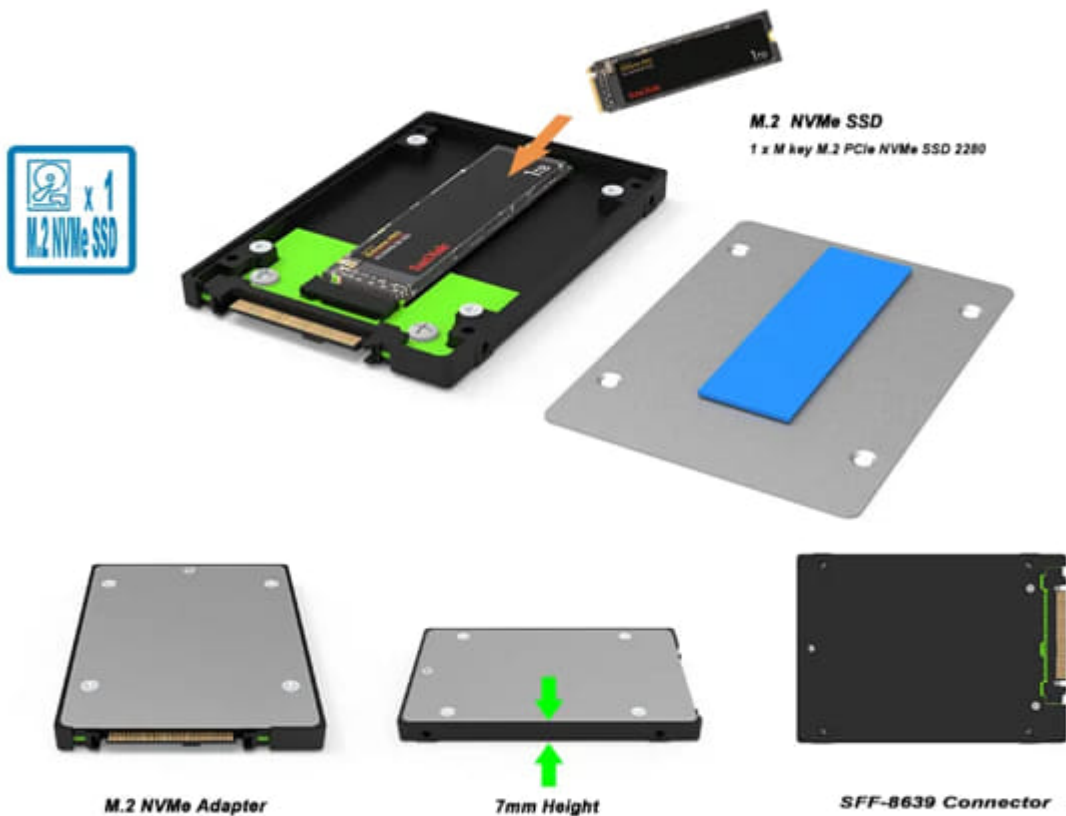
Raidon Technology Introduces UBOX Micro M.2 NVMe to 2.5-Inch U.2 NVMe High-Performance Adapter

Compliant with U.2 (SFF-8639) specifications and support PCIe x 4 NVMe, transforms standard M.2 2280 NVMe SSD (22x80mm) into 7mm-thick 2.5" U.2 NVMe SSD

[Raidon Technology, Inc.](#) announces the [Stardom UBOX Micro](#), a M.2 NVMe SSD to 2.5" U.2 NVMe SSD (7mm) performance adapter.

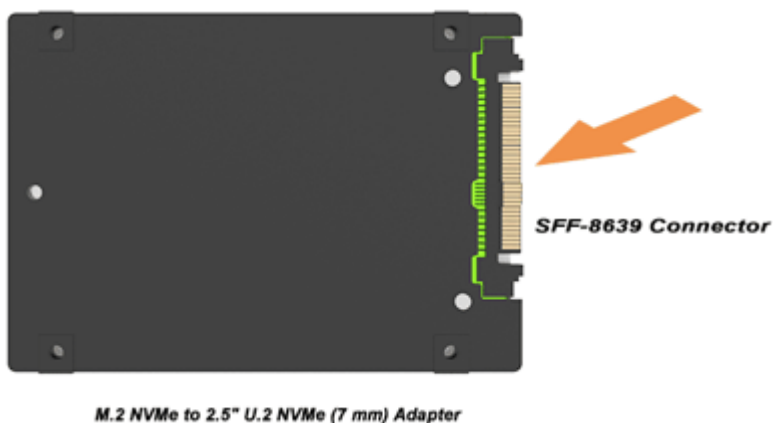


UBOX Micro is a compact and high-performance adapter that transforms a standard M.2 2280 NVMe SSD (22×80 mm) into a 7mm-thick, 2.5" U.2 NVMe SSD. It provides a flexible and durable upgrade solution for servers, workstations, and embedded or industrial systems that rely on U.2 bays and backplanes. Compliant with U.2 (SFF-8639) specifications and support PCIe x 4 NVMe, UBOX Micro makes you easy to install fast M.2 storage in hot-swap systems of U.2.



Key Features:

- **Ultra-Thin 7mm Design**
Converts an M.2 2280 NVMe SSD into a standard 2.5" U.2 NVMe SSD (7mm z-height) and ideal for compact systems and dense storage bays.
- **Optimized for 2280 NVMe**
Secure and stable mounting for standard M.2 2280 (22×80 mm) NVMe drives.
- **Service-Friendly Upgrades**
Swap M.2 NVMe SSDs using existing U.2 trays, backplanes, or mobile racks, and no new hardware required.
- **Standards-Based U.2 Interface (SFF-8639)**
Matches U.2 size, port placement, and electrical specifications for plug-and-play integration with U.2 systems

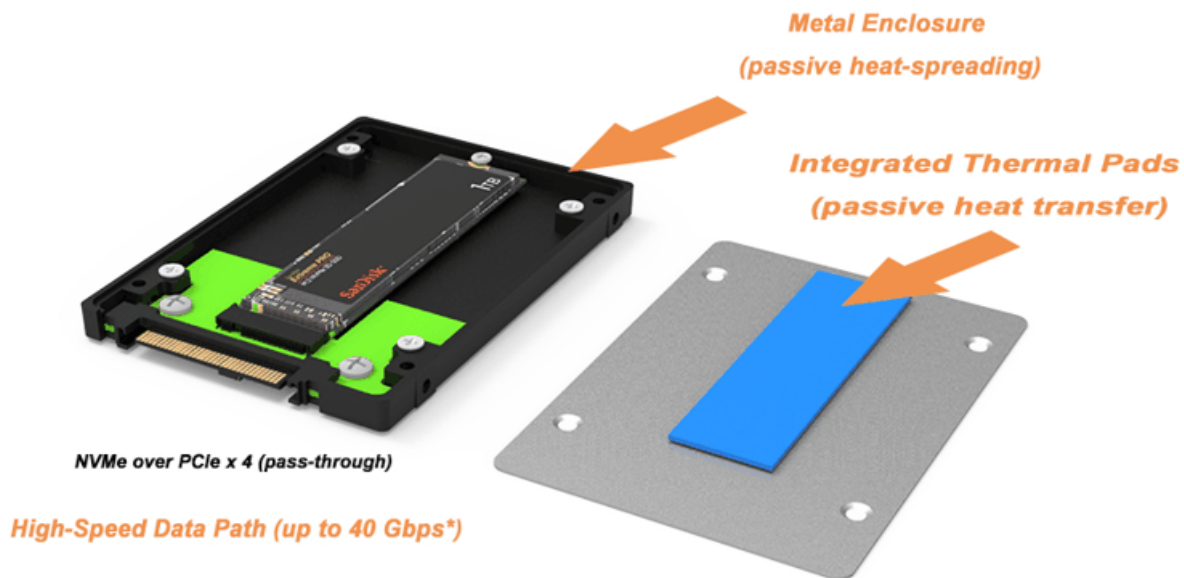


- **High-Speed Performance (Up to 40Gb)**
NVMe over PCIe delivers fast speeds with low delay. U.2 supports up to 4 PCIe lanes for high-performance use.

Actual speed depends on the PCIe version and setup of your system.

- **Metal Enclosure with Passive Cooling**

Durable housing protects the SSD in harsh or vibration environments and improves heat transfer to reduce slowdowns during the heavy use



- **Integrated Thermal Management**

Installed thermal pads help to transfer heat away from the SSD controller and NAND chips, so the drive can keep running at fast speed during heavy use

Benefits:

- **Plug-and-Play U.2 Support**

Works with standard U.2 bays for easy hot-swap and maintenance – perfect for scaling.

- **Consistent High Performance**

Metal chassis and thermal pads prevent overheating, ensuring stable speeds during heavy use.

- **Durable, Easy-to-Handle Design**

Protects M.2 SSDs in a rugged 2.5" form – ideal for labeling, tracking, and quick replacements.

- **Cost-Efficient Upgrades**

Use existing U.2 infrastructure with M.2 SSDs to save money and expand hardware options.

- **Possible Applications: Enterprise and Cloud Servers**

Using NVMe as boot drives, cache, or hot-swap storage with existing U.2 setups

- **Pro Workstations**

Ideal for 8K video, VFX, or CAD work with easy to service U.2 drives

- **AI/ML and HPC Systems**

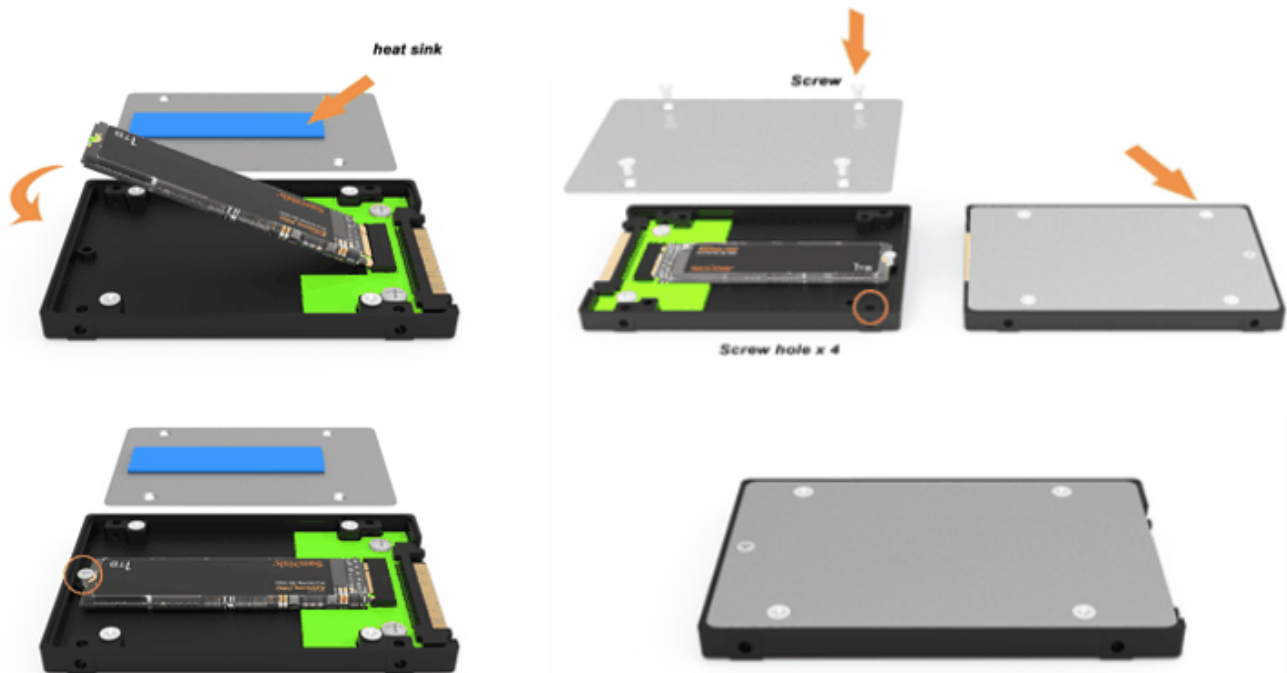
Fast and reliable storage for datasets, feature stores, and model checkpoints

- **Edge and Industrial PCs**

Rugged 2.5" storage for factories, transport, and telecom environments

- **Labs and Homelabs**

Tidy U.2 drive bays with affordable M.2 NVMe SSDs



Comparison:

Attribute	UBOX Micro (M.2→U.2)	Native U.2 NVMe SSD	Bare M.2 on riser/cable
Interface / lanes	U.2 (SFF-8639), PCIe x4 NVMe	U.2 (SFF-8639), PCIe x4 NVMe	Varies (M.2 socket or cabled PCIe)
Typical bandwidth ceiling	Host-dependent; up to Gen4 x4 ~64 Gb theoretical	Host-dependent; up to Gen4 x4 ~64 Gb theoretical	Host-dependent; may match Gen4 x4 but serviceability varies
Serviceability	2.5" hot-swap workflows, drive trays	2.5" hot-swap workflows, drive trays	Usually non-hot-swap; board access required
Thermal design	Metal enclosure + thermal pads (passive)	Vendor-specific thermal casing	Heatsink-only or bare
Mechanical	7mm 2.5" bay compatible	7mm/15mm variants exist	Board-level; no 2.5" bay fit
When to choose	Reuse U.2 cages; mix-and-match M.2 inventory	Pure U.2 fleets and vendor-locked specs	Lab builds or space-permissive rigs

Specs:

Specification	Details
Model No.	UBOX Micro (M.2 NVMe Converter)
Converted Drive Support	M-key M.2 2280 NVMe SSD (NVMe protocol). Not for M.2 SATA.
Host Interface	U.2 (SFF-8639); up to PCIe x4 NVMe pass-through. Hot-swap support is defined by the chassis/backplane.
Form Factor / Z-Height	2.5-inch U.2, 7mm
Interfaces (Ports)	1×SFF-8639 (U.2)
Storage Mode	JBOD - Independent Mode (no RAID)
Dimensions	70 (W) × 109 (L) × 7 (H) mm
OSs	Windows, Linux
Electrical and Operating Requirements	Line voltage: 12V + 5V DC (typical for U.2) • Operating temp: 32-104 °F (0-40 °C) • Storage temp: -4-116 °F (-20-47 °C) • Humidity: 5-95% non-condensing

