



Axagon ADSA-M2C22L USB-C 20Gbps Dual M.2 NVMe SSD Docking and Cloning Station

Model: ADSA-M2C22L

Manufacturer: AXAGON

EAN: 8595247909558

Product Code: 1221085

R2,967

USB 20Gbps docking station for 2× NVMe SSD

The fast AXAGON ADSA-M2C22L CLONE MASTER docking and cloning station with a USB-C 20Gbps interface is designed for working with up to two NVMe M.2 SSDs. The station allows both drives to be connected to a computer simultaneously or cloned from one source drive to another without using a PC. The open design allows quick insertion and replacement of drives without screws, while the sliding cover protects both slots from dust when the station is not in use. Once connected to a computer, you get up to two additional storage drives at the same time. The station is ideal for fast formatting, erasing, testing or preparing NVMe SSDs during data migration, operating system installation, computer servicing or backup. A USB-C 20Gbps cable is also included.

Cloning without a computer

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The station allows one NVMe M.2 SSD to be cloned to another NVMe drive without using a computer or notebook. Thanks to the USB 20Gbps interface, the ADSA-M2C22L achieves a cloning speed of up to 2,000 MB/s. Cloning a 1 TB NVMe drive therefore takes approximately 15 minutes. Simply insert the source drive into the M.2 Source slot and the target drive into the M.2 Target slot, start cloning with the button and monitor the progress using the LED indicators. Since cloning is performed independently without intervention by the operating system, the process is safe, stable and fast – the data is not affected by the OS. Button activation also minimizes the risk of an unintended operation. The result is an exact copy of the drive, including the operating system (Windows, macOS, Linux). The station clones the entire contents of the drive block by block (LBA), so the cloning time depends on the capacity of the source drive, not on the amount of data stored. The target drive must have the same or greater capacity than the source drive.

Performance focused on working with drives

The USB 20Gbps (USB 3.2 Gen 2x2) interface offers a theoretical bandwidth of up to 20 Gb/s. The station's performance is optimized for working with multiple SSDs simultaneously, whether during cloning, data transfer or everyday use. The achieved speed also depends on the type and generation of the M.2 SSDs used. At the heart of the station is the modern JMicron JMS586U chipset, which helps maintain a stable transfer speed even under high load and during long-term operation. The result is smooth data transfer without significant fluctuations and efficient use of the performance of the connected SSDs.

Drives in the system, quick replacement and wide compatibility

Once connected to a computer, both inserted drives appear as separate drives, allowing you to work with them independently or simultaneously, copy data or use them for storage management. The open design allows quick SSD replacement without screws, saving time when working with multiple drives. The two slots also allow you to configure a software RAID, for example for increased data protection in Windows and macOS. To configure this protection, use "Storage Spaces" in Windows or "RAID Assistant" in Disk Utility in macOS. The station is compatible with older USB standards as well as modern USB4 and Thunderbolt 3, 4 and 5 interfaces. It supports NVMe M.2 SSDs without capacity limitations and modern technologies such as UASP, TRIM (NVMe DEALLOCATE) and S.M.A.R.T. Plug and Play and power-saving mode support are also included.

Sliding cover protects the slots from dust

The sliding cover protects both M.2 slots from dust and other debris when the docking station is not

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in use. Simply close it and the device is ready for safe storage or transport. This helps keep the connectors clean and ready for a reliable SSD connection. Once the cover is opened, an SSD can be inserted or replaced within seconds without using any tools. Anti-slip feet keep the docking station stable on the desk and make everyday handling more comfortable.

Everything you need for quick setup is included

The cloning station, a USB-C 20Gbps cable for connection to a computer, an external power adapter and a multilingual user manual.

Input:

- USB 20Gbps (USB 3.2 Gen 2x2), USB-C female connector.
- Compatible with USB 5Gbps, USB 10Gbps, USB 40Gbps, Thunderbolt 3 / 4 / 5.

Device support:

- 2× NVMe M.2 SSDs.
- Designed for M key or B+M key drives.
- 2× NGFF 75-pin M key slots for M.2 drives.
- No maximum drive capacity limitation.

Disk cloning function:

- Cloning is performed without connecting the station to a computer.
- M.2 Source slot – for connecting the source drive.
- M.2 Target slot – for connecting the target drive.
- NVMe to NVMe drive cloning is supported.
- The target drive must have the same or greater capacity than the source drive, otherwise cloning cannot be started.
- Theoretical SSD cloning speed up to 2,000 MB/s.
- The total disk cloning time depends on the speed of the drives used and the capacity of the source drive, not on the amount of data stored on the drive.
- Approximate cloning time for 1 TB of data: 1->1 drive approx. 15 min (tested with a PCIe 4.0 NVMe M.2 SSD with a speed above 4000 MB/s and a large cache capacity).

USB 20Gbps chipset for M.2 SSD:

- JMicron JMS586U chipset.

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- Maximum docking station throughput up to 20 Gbit/s.
- When both drives are used simultaneously, the performance is divided up to 10 Gbit/s per drive.

Maximum theoretical supported speeds and compatibility with USB controllers (ports):

- Laptop / PC with USB 20Gbps (USB 3.2 Gen 2x2) port: max. speed 20 Gbit/s.
- Laptop / PC with USB 10Gbps (USB 3.2 Gen 2) port: max. speed 10 Gbit/s.
- Laptop / PC with USB 5Gbps (USB 3.2 Gen 1 / USB 3.0) port: max. speed 5 Gbit/s.
- Compatibility with USB 40Gbps, Thunderbolt 3 / 4 / 5 ports: max. speed 10 to 20 Gbit/s, depending on the processor and chipset used.
- The actual bandwidth / transfer speed of the docking station of around 2000 MB/s (2 GB/s) is determined by the limitations of the USB 3.2 Gen 2x2 interface.

Other features:

- Support for M.2 drives in sizes 2230, 2242, 2260, 2280, 22110 mm.
- Support for single-sided and double-sided M.2 SSDs.
- Complies with PCI Express Base Specification Revision 3.1a.
- Complies with NVMe Express 1.4 specification.
- Complies with USB Mass Storage Class specification.
- BOT (Bulk-Only Transport) support.
- UASP (USB Attached SCSI) support for faster data transfer in Windows 8 and newer.
- TRIM command support (via UNMAP and NVMe DEALLOCATE operations) to reduce gradual SSD performance degradation over time.
- S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) support for monitoring drive health.
- Support for booting from SSD.
- Full Plug and Play support.
- Integrated sliding cover to protect the M.2 slots from dust and debris.
- Switch for turning the docking station on and off.
- 38 cm USB Type-C male / USB Type-C male cable included.
- Compatible with Windows software RAID (Storage Spaces) and macOS RAID (RAID Assistant in Disk Utility).

Other information:

- **Docking station dimensions 72 × 22 × 72 mm (W × D × H).**

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- Docking station weight 88 g (without cable, without drive).

Power supply:

- Powered by the included external AC/DC 12V-2A adapter with a 150 cm cable.

LED indication:

- Data transfer mode (connected to a computer): In idle mode, POWER, M.2 Source and M.2 Target are lit. During data transfer, M.2 Source and M.2 Target flash.
- Cloning mode (without connection to a computer): In idle mode, POWER, M.2 Source and M.2 Target are lit. Once cloning starts, the 25% – 50% – 75% – 100% LEDs light up progressively according to the cloning progress. When cloning is complete, all LEDs remain continuously lit.
- 1× LED (POWER) indicating power to the docking station.
- Error indication when attempting to clone to a target drive with a smaller capacity than the source drive: Cloning will not start, and the M.2 Source and M.2 Target LEDs will begin flashing. The M.2 Target LED flashes red.
- Drive removal indication: The red LED next to the corresponding slot flashes.

Supported operating systems:

- Windows 8.1 / 10 / 11 and newer, macOS, iPadOS, iOS, Linux, ChromeOS and Android.
- Compatibility depends on an up-to-date operating system and support from the device manufacturer.

Package contents:

- USB-C 20Gbps docking station for 2× M.2 NVMe SSDs,
- 38 cm USB-C / USB-C cable,
- 100-240V / 12V-2A power adapter,
- multilingual user manual CZ / DE / DK / ENG / ESP / EST / FIN / FR / GR / HR / HU / IT / LT / LV / NL / NOR / PL / PT / RO / SK / SLO / SRB / SWE / TR / UA / ALB / BG / BOS / CN / ARA,
- packed in a cardboard box.

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