Axagon ADSA-M2C22 USB-C 20Gbps Dual M.2 NVMe & SATA SSD Docking and Cloning Station

Model: ADSA-M2C22

Manufacturer: AXAGON

EAN: 8595247909367

Product Code: 1351578

R3,212

USB 20Gbps docking station for 2x NVMe or SATA SSD

The fast AXAGON ADSA-M2C22 CLONE MASTER docking and cloning station with a USB-C 20Gbps interface for working with up to two M.2 SSD disks. The station supports two NVMe M.2 SSD or two SATA M.2 SSD disks, so it offers wide possibilities for working with both types of storage. Cloning can be performed without connecting to a computer from one source disk to another target disk. Stable operation is ensured by the combination of a USB 20Gbps interface and active cooling, which

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maintains performance even under long-term load with minimal thermal throttling. After connecting to a computer, you get up to two new storage devices at the same time. The station solves situations where you need to quickly format, erase, test or prepare NVMe or SATA disks - for example during data migration, system installation, service or backup. A USB-C 20Gbps cable is also included in the package.

Cloning without a computer

The station allows you to clone one M.2 SSD to another disk without using a computer or laptop. Thanks to the USB 20Gbps interface, ADSA-M2C22 achieves cloning speeds of up to 2 000 MB/s, while common 10Gbps models end at a speed of 1 000 MB/s. Cloning a 1TB NVMe disk therefore takes approximately 15 minutes. Simply insert the source disk into the M.2 Source slot and the target disk into the M.2 Target slot, start cloning with the button and monitor the progress on the LED indication. Thanks to standalone cloning without operating system intervention, the process is safe, stable and fast - the data is not affected by OS intervention. Button start also minimizes the risk of an unwanted operation. The result is an exact copy of the disk including the operating system (Windows, macOS, Linux). The station clones the entire disk content block by block (LBA), so the cloning time depends on the capacity of the source disk, not on the amount of stored data. The target disk must have the same or higher capacity than the source disk. Cloning supports only NVMe to NVMe or SATA to SATA disks - a combination of NVMe and SATA cannot be used at the same time.

Performance focused on working with disks

The USB 20Gbps (USB 3.2 Gen 2x2) interface offers a theoretical throughput of up to 20 Gb/s. The station performance is optimized for working with multiple SSD disks at the same time, whether during cloning, data transfer or normal use. The achieved speed also depends on the type and generation of the M.2 SSD disks used. At the heart of the station is a modern Realtek RTL9220DP chipset, which helps maintain a stable transfer speed even under high load and long-term operation. The result is smooth data transfer without significant fluctuations and efficient use of the performance of the connected SSD disks.

Disks in the system, quick swapping and broad compatibility

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After connecting to a computer, both inserted disks appear as separate drives, which you can work with independently and simultaneously, copy data or use them for storage management. The open design allows quick SSD swapping without screwing, saving time when working with multiple disks. The two slots also allow you to set up software RAID, for example for higher data protection in Windows and macOS. To configure this protection, use the "Storage Spaces" tool in Windows or "RAID Assistant" in Disk Utility in macOS. The station is compatible with older USB standards, USB4 and Thunderbolt 3, 4, 5 interfaces. It supports M.2 SSD disks without capacity limitation and modern technologies UASP, TRIM (NVMe DEALLOCATE / ATA TRIM) and S.M.A.R.T. Plug and Play and power-saving mode support are a matter of course.

Active cooling for stable performance

When working with multiple NVMe or SATA SSD disks, higher thermal load occurs. Cooling is handled by an active folding fan with magnetic fixation, which helps maintain the optimal operating temperature of the inserted disks and at the same time allows easy folding into compact dimensions when not in use. Thanks to efficient cooling, the risk of overheating and disk slowdown due to thermal throttling is reduced. The aluminum body also dissipates heat from the station itself. This helps maintain stable performance and also extends the lifespan of SSD disks.

Complete package contents for quick setup

In the package you will find everything needed for immediate use: the cloning station, a USB-C 20Gbps cable for connecting to a computer, an external power adapter and a multilingual manual.

Input:

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

Device support:

- 2x NVMe M.2 SSD disks or 2x SATA M.2 SSD disks.
- NVMe and SATA M.2 disks cannot be combined at the same time.
- Designed for M key or B+M key format cards.
- 2x NGFF 75-pin M key slot for M.2 disks.
- No maximum disk capacity limitation.

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Disk content cloning function:

• Cloning takes place without connecting the station to a computer.

• S1 slot M.2 Source - for connecting the source disk.

• T1 slot M.2 Target - for connecting the target disk.

• Cloning NVMe to NVMe or SATA to SATA disks is supported

• When cloning, NVMe and SATA M.2 disks cannot be combined at the same time.

• The target disk must have the same or larger capacity than the source disk, 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 disks used and the capacity of the source disk, not on the amount of data on the disk.

• Approximate cloning time for 1 TB of data: 1->1 disk approx. 15 min (tested with PCIe 4.0 NVMe M.2 SSD with speed over 4000 MB/s and a large cache memory capacity).

USB 20Gbps chipset for M.2 SSD:

• Realtek RTL9220DP chipset.

• Maximum docking station throughput up to 20 Gbit/s.

• When working with both disks at the same time, performance is divided up to 10 Gbit/s for each disk.

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.

• Real throughput / transfer speed of the docking station of around 2000 MB/s (2 GB/s) is determined by the limits of the USB 3.2 Gen 2x2 interface.

Other features:

• Support for M.2 disks with sizes - 2230, 2242, 2260, 2280, 22110 mm.

• Support for single-sided and double-sided M.2 SSD disks.

• Complies with PCI Express Base Specification Revision 3.0 specification.

• Complies with NVM Express 1.3 specification.

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• Complies with Serial ATA 3.1 specification (SATA/600), transfer rates up to 6 Gb/s (600 MB/s).
• 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 later.
• TRIM command support (via UNMAP and NVMe DEALLOCATE / ATA TRIM operations) to reduce gradual SSD performance degradation over time.
• S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) support, a system monitoring disk condition.
• Support for booting from SSD in an external enclosure.
• Full Plug and Play support.
• Active cooling of M.2 disks using an integrated fan with a folding magnetic hinge.
• Switch for turning the integrated fan off and on.
• Higher surface temperature of the docking station is not a defect - thanks to the aluminum body, the heat generated by disk operation is better dissipated and transferred to the surroundings.
• USB type C male / USB type C male cable, 30 cm long, is included in the package.
• Compatible with software Windows RAID (Storage Spaces) and macOS RAID (Disk Utility RAID Assistant).

Other data:
• Docking station dimensions 87 x 101 x 35 mm (W x D x H).
• Docking station weight 293 g (without cable, without disk).

Power supply:
• Power supply using the included external AC/DC adapter 5V-3A with a 150 cm long cable.

LED indication:
• Data transfer mode (connection to a computer): In idle state, POWER, S1, T1 and 25% are lit. During data transfer, the 25% diode turns off and S1, T1 flash.
• Cloning mode (without connection to a computer): In idle state, POWER, S1, T1 and 100% are lit. After cloning starts, the 100% diode turns off and the 25% - 50% - 75% - 100% diodes light up gradually according to cloning progress. After completion, all remain steadily lit.
• 1x LED diode (POWER) indicating docking station power.
• 2x LED diode (S1, T1) at each disk indicates its connection (steady light) and data transfer (flashing).

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• 4x LED diode indicating gradual cloning progress 25% - 50% - 75% - 100%. After cloning is complete, the diodes remain steadily lit.

Supported operating systems:

• Windows 8.1 / 10 / 11 and later, macOS, iPadOS, iOS, Linux, Chrome OS and Android.

• Compatibility depends on the updated operating system and support from the device manufacturer.

Package contains:

• USB-C 20Gbps docking station for 2x M.2 SSD,

• USB-C / USB-C cable, 30 cm long,

• power adapter 100-240V / 5V-3A,

• multilingual 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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