



# Synology Hardware Portfolio

Q1 2025

Synology®

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Our website [www.synology.com](http://www.synology.com) features a comprehensive knowledge base and all the latest information related to Synology and its products, including more details about system requirements and feature limitations.

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# Managing and protecting the world's data

Data is at the heart of every industry's transformation, and this is where Synology has a profoundly important role to play. Our goal is simple. To accommodate the exponential growth of data by transforming the way our customers store and manage data assets.

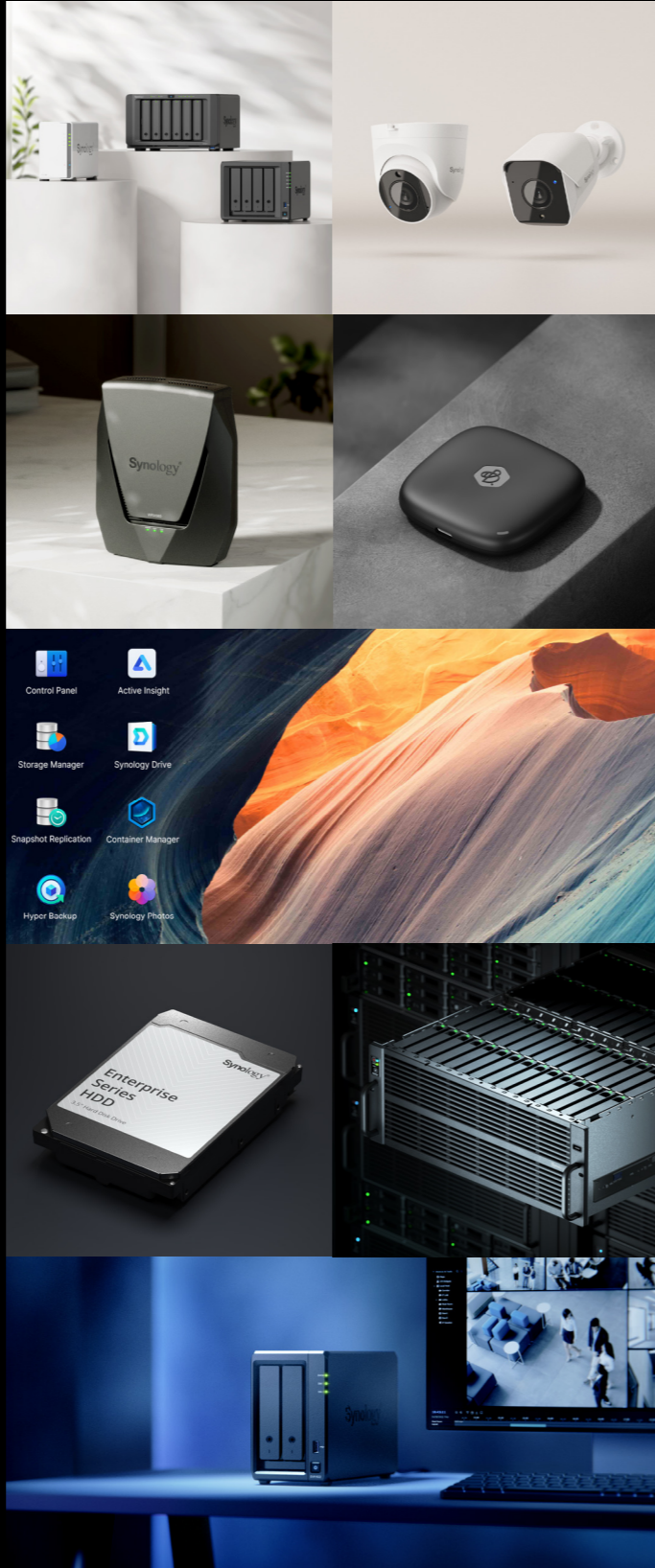
Our core philosophy is to enable anyone to organize, share, and protect their data as they see fit, regardless of scale, infrastructure, or expertise. We're committed to providing simple, secure, and reliable solutions that enable our customers to focus on what matters.

## Internally developed hardware and software

To deliver unique and class-leading solutions, both hardware and software are developed in-house. Synology's storage solutions are powered by our DiskStation Manager (DSM) operating system and additional software solutions developed to complement our ecosystem.

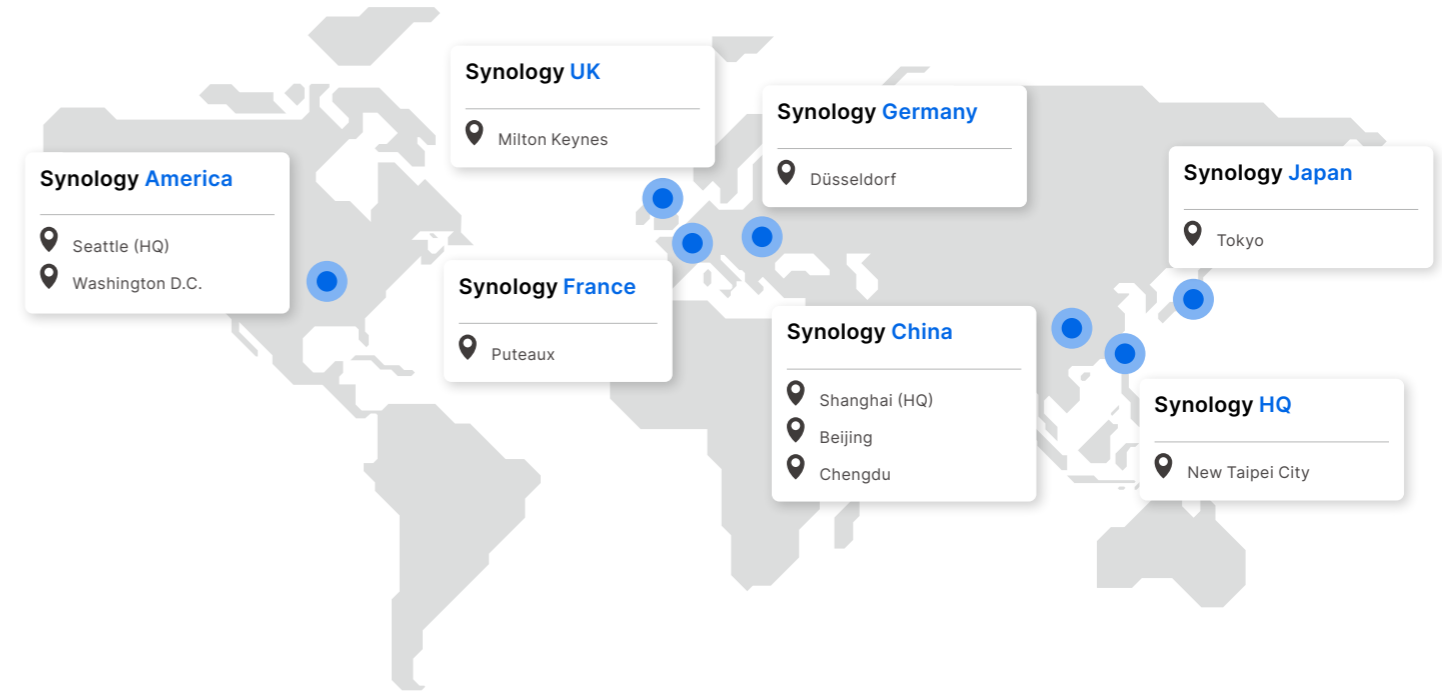
## From datacenters to homes

Our products reach a wide range of customers. Synology's solutions range from SaaS cloud solutions and entry-level servers designed to organize and manage multimedia libraries, to multi-system clusters that enable businesses to centrally manage tens of thousands of devices and petabytes of data.



## Servicing 100+ markets worldwide

Together with 50,000+ partners



## Industry-leading solutions

Consistently the top choice for SMBs/SMEs<sup>1</sup>

**13M+**

Total systems shipped to date

**600K+**

Businesses using Active Backup

**18M+**

SaaS<sup>2</sup> user accounts protected by Synology

**500K+**







Businesses using Surveillance Station

1. #1 in PCMag Reader's Choice (2012-2021), #2 in IT market share study conducted by IT Markt (2019), 4.6/5 customer reviews on Gartner Peer Insights platform (2022)

2. Microsoft 365 (Business) and Google Workspace accounts backed up via Active Backup for Microsoft 365/Google Workspace


# Storage systems

## Rackmount servers

		FS Series		FS Series		UC Series	
		FS6400	FS3600	FS3410	FS2500	UC3400 (2 Controllers)	UC3200 (2 Controllers)
							
<b>Performance<sup>(1)</sup></b>		iSCSI 10GbE - Random IOPS Read: 666,419 IOPS Write: 215,353 IOPS	iSCSI 10GbE - Random IOPS Read: 577,400 IOPS Write: 173,356 IOPS	iSCSI 10GbE - Random IOPS Read: 394,930 IOPS Write: 129,101 IOPS	iSCSI 10GbE - Random IOPS Read: 228,544 IOPS Write: 83,201 IOPS	iSCSI 10GbE - Random IOPS with SSD Read: 699,668 IOPS Write: 189,350 IOPS	iSCSI 10GbE - Random IOPS with SSD Read: 444,490 IOPS Write: 154,174 IOPS
<b>Processor</b>		Intel® Xeon® Silver 4110	Intel® Xeon® D-1567	Intel® Xeon® D-1541	AMD Ryzen™ V1780B	Intel® Xeon® D-1541 (per controller)	Intel® Xeon® D-1521 (per controller)
<b>Memory/Max. Memory</b>		32 GB DDR4 ECC, up to 512 GB	16 GB DDR4 ECC, up to 128 GB	16 GB DDR4 ECC, up to 128 GB	8 GB DDR4 ECC, up to 32 GB	8 GB DDR4 ECC, up to 64 GB (per controller)	
<b>Drive Bays<sup>(3)</sup></b>	SAS/SATA LFF/SFF <sup>(2)</sup>	24/72 <sup>(7)</sup> SATA/SAS SFF		24 SATA SFF	12 SATA SFF	12/36 <sup>(6)</sup> SAS LFF/SFF	
	NVMe	-		-	-	-	
<b>External Ports</b>		2 × USB 3.2 Gen 1 1 × Expansion port	2 × USB 3.2 Gen 1 1 × Expansion port	2 × USB 3.2 Gen 1		1 × Expansion port (per controller)	
<b>PCIe Slots<sup>(4)</sup></b>		2 × PCIe Gen 3 ×8	1 × PCIe Gen 3 ×8	2 × PCIe Gen 3 ×8	1 × PCIe Gen3 ×4	1 × PCIe Gen 3 ×8 (per controller)	
<b>Network Ports</b>		2 × 10GbE, 2 × 1GbE	2 × 10GbE, 4 × 1GbE	2 × 10GbE, 5 × 1GbE (1 for OOB management)	2 × 1GbE, 2 × 10GbE	1 × 10GbE, 2 × 1GbE (per controller)	
<b>Supported File Systems (Internal Drives)</b>		Btrfs, ext4	Btrfs, ext4	Btrfs, ext4		Btrfs	
<b>File/Network Protocols</b>		SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel	SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel	SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel		iSCSI, Fibre Channel	
<b>Supported RAID Types</b>		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1	
<b>File Sharing</b>	Max. Number of User Accounts	16,000		16,000		65	
	Max. Concurrent Connections (SMB, FTP, AFP)	8,000	4,000	4,000	2,000	-	
<b>Synology Surveillance Station</b>	Max. IP Cameras <sup>(5)</sup>	150	128	100		-	
	Total Frames Per Second (H.264)	4,500 FPS at 720p	3,840 FPS at 720p	3,000 FPS at 720p		-	
<b>Synology Productivity Suite</b>	Max. Concurrent MailPlus Users	2,200	1,600	1,100	300	-	
	Max. Synology Office Users	3,400		3,400	2,900	-	
<b>Power Consumption<sup>(6)</sup></b>	Access	288.49 W	258.23 W	113.84 W	74.83 W	239.25 W	417.48 W
	HDD Hibernation	145.80 W	127.99 W	-		-	
<b>Appearance</b>	Dimensions (H × W × D)	88 × 482 × 724 mm		88 × 482 × 724 mm	44 × 481.9 × 555.9 mm	88 × 482 × 724 mm	
	Weight	17.26 kg	14.90 kg	15.00 kg	8.30 kg	19.70 kg	
<b>Warranty</b>		5 years		5 years		5 years	

# Storage systems

## Rackmount servers

		SA Series				HD Series	
		SA6400	SA3610	SA3410	SA3400D (2 Controllers)	SA3200D (2 Controllers)	HD6500
							
<b>Performance<sup>(1)</sup></b>		Read: 6,259.12 MB/s Write: 4,032.83 MB/s	Read: 6,197.03 MB/s Write: 3,054.16 MB/s	Read: 6,283.92 MB/s Write: 3,020.29 MB/s	Read: 3,540.47 MB/s Write: 2,941.47 MB/s	Read: 3,540.72 MB/s Write: 2,183.12 MB/s	Read: 6,474.51 MB/s Write: 6,678.65 MB/s
<b>Processor</b>		AMD EPYC™ 7272	Intel® Xeon® D-1567	Intel® Xeon® D-1541	Intel® Xeon® D-1541 (per controller)	Intel® Xeon® D-1521 (per controller)	Intel® Xeon® Silver 4210R
<b>Memory/Max. Memory</b>		32 GB DDR4 ECC, up to 1,024 GB	16 GB DDR4 ECC, up to 128 GB	16 GB DDR4 ECC, up to 128 GB	8 GB DDR4 ECC, up to 64 GB (per controller)	8 GB DDR4 ECC, up to 64 GB (per controller)	64 GB DDR4 ECC, up to 512 GB
<b>Drive Bays<sup>(3)</sup></b>	<b>SAS/SATA LFF/SFF<sup>(2)</sup></b>	12/108 <sup>(10)</sup> SATA LFF/SFF	12/96 <sup>(9)</sup> SATA/SAS LFF/SFF	12/96 <sup>(9)</sup> SATA/SAS LFF/SFF	12/36 <sup>(8)</sup> SAS LFF/SFF		60/300 <sup>(11)</sup> SAS LFF / SATA SFF
	<b>NVMe</b>	-		-		-	-
<b>External Ports</b>		2 × USB 3.2 Gen 1 8 × Expansion port	2 × USB 3.2 Gen 1 1 × Expansion port	2 × USB 3.2 Gen 1 1 × Expansion port	1 × Expansion port (per controller)		2 × USB 3.2 Gen 1 2 × Expansion port
<b>PCIe Slots<sup>(4)</sup></b>		2 × PCIe Gen 3 × 8		2 × PCIe Gen 3 × 8	1 × PCIe Gen 3 × 8 (per controller)		2 × PCIe Gen 3 × 16, 2 × PCIe Gen 3 × 8
<b>Network Ports</b>		2 × 10GbE, 5 × 1GbE (1 for OOB management)		2 × 10GbE, 5 × 1GbE (1 for OOB management)	1 × 10GbE, 2 × 1GbE (per controller)		2 × 10GbE, 3 × 1GbE (1 for OOB management)
<b>Supported File Systems (Internal Drives)</b>		Btrfs, ext4		Btrfs, ext4		Btrfs	
<b>File/Network Protocols</b>		SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel		SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel		SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel	
<b>Supported RAID Types</b>		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1		Basic, JBOD, RAID 0/1/5/6/10	
<b>File Sharing</b>	<b>Max. Number of User Accounts</b>	16,000		16,000			
	<b>Max. Concurrent Connections (SMB, FTP, AFP)</b>	8,000	4,000	4,000	1,200	10,000	
<b>Synology Surveillance Station</b>	<b>Max. IP Cameras<sup>(5)</sup></b>	128		128	100	150	
	<b>Total Frames Per Second (H.264)</b>	3,840 FPS at 720p		3,840 FPS at 720p	3,000 FPS at 720p		4,500 FPS at 720p
<b>Synology Productivity Suite</b>	<b>Max. Concurrent MailPlus Users</b>	2,200	1,600	1,100		500	800
	<b>Max. Synology Office Users</b>	3,400		3,400		2,800	3,400
<b>Power Consumption<sup>(6)</sup></b>	<b>Access</b>	180.50 W	137.54 W	136.15 W	257.78 W	417.48 W	1,025.20 W
	<b>HDD Hibernation</b>	88.56 W	58.23 W	58.48 W	-		418.00 W
<b>Appearance</b>	<b>Dimensions (H × W × D)</b>	88 × 482 × 724 mm		88 × 482 × 724 mm		176 × 482 × 1020 mm	
	<b>Weight</b>	16.50 kg	14.50 kg	14.50 kg	19.70 kg	37.90 kg	
<b>Warranty</b>		5 years		5 years			






# Storage systems

## Rackmount servers

		XS(+) Series					
		RS4021xs+	RS3621xs+	RS3621RPxs	RS3618xs	RS1619xs+	
							
<b>Performance<sup>(1)</sup></b>		Read: 6,259.05 MB/s Write: 3,039.22 MB/s	Read: 5,723.82 MB/s Write: 2,889.97 MB/s	Read: 4,666.09 MB/s Write: 2,787.46 MB/s	Read: 4,715.83 MB/s Write: 2,301.96 MB/s	Read: 1,577.39 MB/s Write: 969.71 MB/s	
<b>Processor</b>		Intel® Xeon® D-1541			Intel® Xeon® D-1531	Intel® Xeon® D-1521	Intel® Xeon® D-1527
<b>Memory/Max. Memory</b>		16 GB DDR4 ECC, up to 64 GB	8 GB DDR4 ECC, up to 64 GB	8 GB DDR4 ECC, up to 64 GB			
<b>Drive Bays<sup>(3)</sup></b>	<b>SAS/SATA LFF/SFF<sup>(2)</sup></b>	16/40 <sup>(12)</sup> SATA LFF/SFF	12/36 <sup>(12)</sup> SATA LFF/SFF	12/36 <sup>(12)</sup> SATA LFF/SFF		4/16 <sup>(13)</sup> SATA LFF/SFF	
	<b>NVMe</b>	-			-	2 × M.2 2280 NVMe	
<b>External Ports</b>		2 × USB 3.2 Gen 1 2 × Expansion port		2 × USB 3.2 Gen 1 2 × Expansion port		2 × USB 3.2 Gen 1 1 × Expansion port	
<b>PCIe Slots<sup>(4)</sup></b>		2 × PCIe Gen 3 ×8		2 × PCIe Gen 3 ×8		1 × PCIe Gen 3 ×8	
<b>Network Ports</b>		2 × 10GbE, 4 × 1GbE			4 × 1GbE		
<b>Supported File Systems (Internal Drives)</b>		Btrfs, ext4			Btrfs, ext4		
<b>File/Network Protocols</b>		SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel			SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel		
<b>Supported RAID Types</b>		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1			Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1		
<b>File Sharing</b>	<b>Max. Number of User Accounts</b>	16,000			16,000		
	<b>Max. Concurrent Connections (SMB, FTP, AFP)</b>	4,000	2,000	2,000			
<b>Synology Surveillance Station</b>	<b>Max. IP Cameras<sup>(5)</sup></b>	90			75		
	<b>Total Frames Per Second (H.264)</b>	2,700 FPS at 720p			2,250 FPS at 720p		
<b>Synology Productivity Suite</b>	<b>Max. Concurrent MailPlus Users</b>	1,100	800	800	500	450	
	<b>Max. Synology Office Users</b>	3,000			3,000	2,900	
<b>Power Consumption<sup>(6)</sup></b>	<b>Access</b>	145.79 W	142.50 W	140.01 W	142.76 W	68.68 W	
	<b>HDD Hibernation</b>	62.68 W	72.76 W	65.94 W	55.05 W	34.78 W	
<b>Appearance</b>	<b>Dimensions (H × W × D)</b>	132.3 × 482 × 656.5 mm	88 × 482 × 724 mm	88 × 482 × 724 mm		44 × 480 × 518.6 mm	
	<b>Weight</b>	17.40 kg	14.50 kg	14.50 kg		8.16 kg	
<b>Warranty</b>		5 years			5 years		








# Storage systems

## Rackmount servers

		Plus Series				
		RS2821RP+	RS2423+/RS2423RP+	RS1221+/RS1221RP+	RS822+/RS822RP+	RS422+
						
Performance <sup>(1)</sup>		Read: 2,220.06 MB/s Write: 1,457.34 MB/s	Read: 3,540.01 MB/s Write: 1,661.68 MB/s	Read: 2,321.45 MB/s Write: 1,475.50 MB/s	Read: 2,103.28 MB/s Write: 1,078.33 MB/s	Read: 574.25 MB/s <sup>(16)</sup> Write: 532.48 MB/s <sup>(16)</sup>
Processor		AMD Ryzen™ V1500B	AMD Ryzen™ V1780B	AMD Ryzen™ V1500B		AMD Ryzen™ R1600
Memory/Max. Memory		4 GB DDR4 ECC, up to 32 GB	8 GB DDR4 ECC, up to 32 GB	4 GB DDR4 ECC, up to 32 GB	2 GB DDR4 ECC, up to 32 GB	2 GB DDR4 ECC
Drive Bays <sup>(3)</sup>	SAS/SATA LFF/SFF <sup>(2)</sup>	16/28 <sup>(13)</sup> SATA LFF/SFF	12/24 <sup>(14)</sup> SATA LFF/SFF	8/12 <sup>(15)</sup> SATA LFF/SFF	4/8 <sup>(15)</sup> SATA LFF/SFF	4 SATA LFF/SFF
	NVMe	-				
External Ports		2 × USB 3.2 Gen 1 1 × Expansion port		2 × USB 3.2 Gen 1 1 × Expansion port		1 × USB 3.2 Gen 1
PCIe Slots <sup>(4)</sup>		1 × PCIe Gen 3 ×4		1 × PCIe Gen 3 ×4		1 × Network upgrade slot
Network Ports		4 × 1GbE	1 × 10GbE, 2 × 1GbE	4 × 1GbE		2 × 1GbE
Supported File Systems (Internal Drives)		Btrfs, ext4			Btrfs, ext4	
File/Network Protocols		SMB, AFP, NFS, WebDAV, FTP, iSCSI			SMB, AFP, NFS, WebDAV, FTP, iSCSI	
Supported RAID Types		Basic, JBOD, RAID 0/1/5/6/10, SHR			Basic, JBOD, RAID 0/1/5/6/10, SHR	
File Sharing	Max. Number of User Accounts	2,048				
	Max. Concurrent Connections (SMB, FTP, AFP)	1,000	2,000	1,000	500	
Synology Surveillance Station	Max. IP Cameras <sup>(5)</sup>	40	50	40		
	Total Frames Per Second (H.264)	1,200 FPS at 720p	1,500 FPS at 720p	1,200 FPS at 720p		
Synology Productivity Suite	Max. Concurrent MailPlus Users	150		150		-
	Max. Synology Office Users	1,800		1,800		200
Power Consumption <sup>(6)</sup>	Access	97.54 W	RS2423+: 119.95 W RS2423RP+: 114.86 W	RS1221+: 61.94 W RS1221RP+: 61.94 W	RS822+: 47.69 W RS822RP+: 47.69 W	37.93 W
	HDD Hibernation	49.57 W	RS2423+: 46.21 W RS2423RP+: 42.33 W	RS1221+: 29.98 W RS1221RP+: 29.98 W	RS822+: 16.70 W RS822RP+: 16.70 W	13.43 W
Appearance	Dimensions (H × W × D)	132.3 × 482 × 656.5 mm	RS2423+: 88 × 482 × 552 mm RS2423RP+: 88 × 482 × 578 mm	RS1221+: 88 × 482 × 306.6 mm RS1221RP+: 88 × 482 × 407.5 mm	RS822+: 44 × 480 × 492.6 mm RS822RP+: 44 × 480 × 518.6 mm	44 × 478 × 327.5 mm
	Weight	17.10 kg	RS2423+: 11.50 kg RS2423RP+: 11.90 kg	RS1221+: 6.90 kg RS1221RP+: 8.40 kg	RS822+: 6.40 kg RS822RP+: 8.00 kg	4.38 kg
Warranty		3 years <sup>(17)</sup>			3 years <sup>(17)</sup>	

# Storage systems

## Rackmount servers

		Rackmount Expansion Units						
		FX2421	RXD1219sas	RX6022sas	RX1222sas	RX1223RP	RX1217/RX1217RP	RX418
								
<b>Compatible Drive Types</b>		SATA/SAS SFF	SAS LFF/SFF	SAS LFF	SAS/SATA LFF/SFF	SATA LFF/SFF		
<b>Bays</b>		24	12	60	12			4
<b>Power Consumption<sup>(6)</sup></b>	<b>Access</b>	190.99 W	299.79 W	811.80 W	194.40 W	93.59 W	RX1217: 68.60 W RX1217RP: 71.32 W	23.26 W
	<b>HDD Hibernation</b>	80.97 W	-	231.00 W	82.56 W	30.73 W	RX1217: 27.45 W RX1217RP: 31.20 W	6.39 W
<b>Volume Type</b>		Host-dependent			Host-dependent			
<b>Appearance</b>	<b>Dimensions (H x W x D)</b>	88 x 482 x 724 mm		176 x 482 x 1020 mm	88 x 482 x 724 mm		RX1217: 88 x 482 x 696 mm RX1217RP: 88 x 482 x 724 mm	44 x 480 x 325 mm
	<b>Weight</b>	14.50 kg	18.20 kg	33.90 kg	13.50 kg	13.90 kg	RX1217: 12.70 kg RX1217RP: 13.40 kg	4.28 kg
<b>Warranty</b>		5 years			5 years			3 years <sup>(17)</sup>

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

- 64 KB block size for SMB sequential throughput values, and 4 KB block size for iSCSI random IOPS values. Systems with 12 bays or above were tested using RAID 6. Actual performance may vary depending on workload, test equipment, and configuration. Please visit [www.synology.com/products/performance](http://www.synology.com/products/performance) for more information.
- Compatible drive types refer to supported bus interfaces. See each model's [compatibility list](#) for supported drives.
- Drives not included. Check our [compatibility list](#) for supported drives.
- Please visit [www.synology.com](http://www.synology.com) for the most up-to-date information on lane count, slot width, and supported add-in cards.
- Device licenses govern the amount of cameras that can be used. Each Synology NAS comes with 2 free device licenses, with additional licenses available for purchase. The DVA3221 and DVA1622 come standard with 8 free licenses.
- Power consumption will vary according to drive models installed and any additional add-in-cards or upgrades. The provided values are for reference only.
- Compatible with up to 2 x RX1217sas or 2 x FX2421.
- Compatible with up to 2 x RXD1219sas.
- Compatible with up to 7 x RX1222sas.
- Compatible with up to 8 x RX1223RP.
- Compatible with up to 4 x RX6022sas. Only support SAS LFF HDDs and SATA SFF SSDs. To install 2.5" SATA SSDs, optional 2.5" drive trays (R5) must be purchased separately. Check our [compatibility list](#) for supported drives.
- Compatible with up to 2 x RX1217/RX1217RP.
- Compatible with up to 1 x RX1217/RX1217RP.
- Compatible with up to 1 x RX1223RP.
- Compatible with up to 1 x RX418.
- Tested using [E10G22-T1-Mini](#).
- See [Extended Warranty](#) or [Extended Warranty Plus](#) for more information and eligibility.







# Storage systems

## Tower servers

		XS(+) Series		Plus Series		
		DS3622xs+	DS1823xs+	DS2422+	DS1821+	DS1621+
						
<b>Performance<sup>(1)</sup></b>		Read: 4,705.06 MB/s Write: 2,467.33 MB/s	Read: 3,199.39 MB/s Write: 2,621.73 MB/s	Read: 2,201.20 MB/s Write: 1,398.17 MB/s	Read: 2,321.89 MB/s Write: 1,467.93 MB/s	Read: 2,323.50 MB/s Write: 1,437.60 MB/s
<b>Processor</b>		Intel® Xeon® D-1531	AMD Ryzen™ V1780B	AMD Ryzen™ V1500B	AMD Ryzen™ V1500B	AMD Ryzen™ V1500B
<b>Memory/Max. Memory</b>		16 GB DDR4 ECC, up to 48 GB	8 GB DDR4 ECC, up to 32 GB	4 GB DDR4 ECC, up to 32 GB		
<b>Drive Bays<sup>(3)</sup></b>	<b>SAS/SATA LFF/SFF<sup>(2)</sup></b>	12/36 <sup>(7)</sup> SATA LFF/SFF	8/18 <sup>(8)</sup> SATA LFF/SFF	12/24 <sup>(9)</sup> SATA LFF/SFF	8/18 <sup>(8)</sup> SATA LFF/SFF	6/16 <sup>(8)</sup> SATA LFF/SFF
	<b>NVMe</b>	-	2 × M.2 2280 NVMe	-	2 × M.2 2280 NVMe	
<b>External Ports</b>		2 × USB 3.2 Gen 1 2 × Expansion port	3 × USB 3.2 Gen 1 2 × Expansion port	2 × USB 3.2 Gen 1 1 × Expansion port	4 × USB 3.2 Gen 1 2 × Expansion port	3 × USB 3.2 Gen 1 2 × Expansion port
<b>PCIe Slots<sup>(4)</sup></b>		1 × PCIe Gen 3 ×8	1 × PCIe Gen 3 ×4	1 × PCIe Gen 3 ×4		
<b>Network Ports</b>		2 × 10GbE, 3 × 1GbE (1 for OOB management)	1 × 10GbE, 3 × 1GbE (1 for OOB management)	4 × 1GbE		
<b>Supported File Systems (Internal Drives)</b>		Btrfs, ext4		Btrfs, ext4		
<b>File/Network Protocols</b>		SMB, AFP, NFS, WebDAV, FTP, iSCSI, Fibre Channel		SMB, AFP, NFS, WebDAV, FTP, iSCSI		
<b>Supported RAID Types</b>		Basic, JBOD, RAID 0/1/5/6/10, Synology RAID F1		Basic, JBOD, RAID 0/1/5/6/10, SHR		
<b>File Sharing</b>	<b>Max. Number of User Accounts</b>	16,000		2,048		
	<b>Max. Concurrent Connections (SMB, FTP, AFP)</b>	4,000	2,000	1,000		
<b>Synology Surveillance Station</b>	<b>Max. IP Cameras<sup>(5)</sup></b>	90	75	40		
	<b>Total Frames Per Second (H.264)</b>	2,700 FPS at 720p	2,250 FPS at 720p	1,200 FPS at 720p		
<b>Synology Productivity Suite</b>	<b>Max. Concurrent MailPlus Users</b>	800	450	150		
	<b>Max. Synology Office Users</b>	2,900		1,800		
<b>Power Consumption<sup>(6)</sup></b>	<b>Access</b>	94.42 W	87.93 W	73.11 W	59.80 W	51.22 W
	<b>HDD Hibernation</b>	54.33 W	28.37 W	32.12 W	26.18 W	25.27 W
<b>Appearance</b>	<b>Dimensions (H × W × D)</b>	270 × 300 × 340 mm	166 × 343 × 243 mm	270 × 300 × 340 mm	166 × 343 × 243 mm	166 × 282 × 243 mm
	<b>Weight</b>	9.80 kg	6.20 kg	9.50 kg	6.00 kg	5.10 kg
<b>Warranty</b>		5 years		3 years <sup>(11)</sup>		

# Storage systems

## Tower servers

		Plus Series					
		DS1522+	DS923+	DS723+	DS423+	DS224+	DS620slim
							
<b>Performance<sup>(1)</sup></b>		Read: 744.44 MB/s Write: 789.17 MB/s	Read: 598.51 MB/s Write: 560.33 MB/s	Read: 449.82 MB/s Write: 224.28 MB/s	Read: 225.97 MB/s Write: 225.82 MB/s	Read: 226.02 MB/s Write: 225.18 MB/s	Read: 225.98 MB/s Write: 225.41 MB/s
<b>Processor</b>		AMD Ryzen™ R1600		AMD Ryzen™ R1600	Intel® Celeron® J4125	Intel® Celeron® J4125	Intel® Celeron® J3355
<b>Memory/Max. Memory</b>		8 GB DDR4 ECC, up to 32 GB	4 GB DDR4 ECC, up to 32 GB	2 GB DDR4 ECC, up to 32 GB	2 GB DDR4, up to 6 GB		2 GB DDR3, up to 6 GB
<b>Drive Bays<sup>(3)</sup></b>	<b>SAS/SATA LFF/SFF<sup>(2)</sup></b>	5/15 <sup>(8)</sup> SATA LFF/SFF	4/9 <sup>(10)</sup> SATA LFF/SFF	2/7 <sup>(10)</sup> SATA LFF/SFF	4 SATA LFF/SFF	2 SATA LFF/SFF	6 SATA SFF
	<b>NVMe</b>	2 × M.2 2280 NVMe		2 × M.2 2280 NVMe		-	-
<b>External Ports</b>		2 × USB 3.2 Gen 1 2 × Expansion port	2 × USB 3.2 Gen 1 1 × Expansion port	1 × USB 3.2 Gen 1 1 × Expansion port	2 × USB 3.2 Gen 1		
<b>PCIe Slots<sup>(4)</sup></b>		1 × Network upgrade slot		1 × Network upgrade slot	-		
<b>Network Ports</b>		4 × 1GbE	2 × 1GbE	2 × 1GbE			
<b>Supported File Systems (Internal Drives)</b>		Btrfs, ext4			Btrfs, ext4		
<b>File/Network Protocols</b>		SMB, AFP, NFS, WebDAV, FTP, iSCSI			SMB, AFP, NFS, WebDAV, FTP, iSCSI		
<b>Supported RAID Types</b>		Basic, JBOD, RAID 0/1/5/6/10, SHR		Basic, JBOD, RAID 0/1, SHR	Basic, JBOD, RAID 0/1/5/6/10, SHR	Basic, JBOD, RAID 0/1, SHR	Basic, JBOD, RAID 0/1/5/6/10, SHR
<b>File Sharing</b>	<b>Max. Number of User Accounts</b>	2,048		2,048			
	<b>Max. Concurrent Connections (SMB, FTP, AFP)</b>	2,000	1,000	500			
<b>Synology Surveillance Station</b>	<b>Max. IP Cameras<sup>(5)</sup></b>	40		40	25		
	<b>Total Frames Per Second (H.264)</b>	1,200 FPS at 720p		1,200 FPS at 720p		750 FPS at 720p	
<b>Synology Productivity Suite</b>	<b>Max. Concurrent MailPlus Users</b>	100		100	50		
	<b>Max. Synology Office Users</b>	1,200		1200	400		
<b>Power Consumption<sup>(6)</sup></b>	<b>Access</b>	52.06 W	35.51 W	21.07 W	28.30 W	14.69 W	34.88 W
	<b>HDD Hibernation</b>	16.71 W	11.52 W	8.62 W	8.45 W	4.41 W	7.59 W
<b>Appearance</b>	<b>Dimensions (H × W × D)</b>	166 × 230 × 223 mm	166 × 199 × 223 mm	166 × 106 × 223 mm	166 × 199 × 223 mm	165 × 108 × 232.2 mm	121 × 151 × 175 mm
	<b>Weight</b>	2.70 kg	2.24 kg	1.51 kg	2.18 kg	1.30 kg	1.40 kg
<b>Warranty</b>		3 years <sup>(11)</sup>		3 years <sup>(11)</sup>		2 years <sup>(11)</sup>	



# Storage systems

## Tower servers

		Value Series			J Series
		DS423	DS223	DS124	DS223j
					
Performance <sup>(1)</sup>		Read: 224.76 MB/s Write: 213.03 MB/s	Read: 112.52 MB/s Write: 112.46 MB/s	Read: 112.53 MB/s Write: 112.58 MB/s	Read: 112.42 MB/s Write: 112.52 MB/s
Processor		Realtek® RTD1619B			Realtek® RTD1619B
Memory/Max. Memory		2 GB DDR4	2 GB DDR4	1 GB DDR4	1 GB DDR4
Drive Bays <sup>(3)</sup>	SAS/SATA LFF/SFF <sup>(2)</sup>	4 SATA LFF/SFF	2 SATA LFF/SFF	1 SATA LFF/SFF	2 SATA LFF/SFF
	NVMe	-	-	-	-
External Ports		2 × USB 3.2 Gen 1	3 × USB 3.2 Gen 1	2 × USB 3.2 Gen 1	2 × USB 3.2 Gen 1
PCIe Slots <sup>(4)</sup>		-	-	-	-
Network Ports		2 × 1GbE	1 × 1GbE		1 × 1GbE
Supported File Systems (Internal Drives)		Btrfs, ext4			Btrfs, ext4
File/Network Protocols		SMB, AFP, NFS, WebDAV, FTP, iSCSI			SMB, AFP, NFS, WebDAV, FTP, iSCSI
Supported RAID Types		Basic, JBOD, RAID 0/1/5/6/10, SHR	Basic, JBOD, RAID 0/1, SHR	Basic	Basic, JBOD, RAID 0/1, SHR
File Sharing	Max. Number of User Accounts	1,024	1,024		1,024
	Max. Concurrent Connections (SMB, FTP, AFP)	200	200		100
Synology Surveillance Station	Max. IP Cameras <sup>(5)</sup>	30	20	12	12
	Total Frames Per Second (H.264)	900 FPS at 720p	600 FPS at 720p	360 FPS at 720p	360 FPS at 720p
Synology Productivity Suite	Max. Concurrent MailPlus Users	-	-		-
	Max. Synology Office Users	200	200		100
Power Consumption <sup>(6)</sup>	Access	32.41 W	17.34 W	10.69 W	16.31 W
	HDD Hibernation	4.97 W	4.08 W	3.44 W	4.00 W
Appearance	Dimensions (H × W × D)	184 × 168 × 230 mm	165 × 108 × 232.7 mm	166 × 71 × 224 mm	165 × 100 × 225.5 mm
	Weight	2.21 kg	1.28 kg	0.70 kg	0.88 kg
Warranty		2 years <sup>(11)</sup>			2 years <sup>(11)</sup>

# Storage systems

## Tower servers

		Desktop Expansion Units	
		<u><a href="#">DX1222</a></u>	<u><a href="#">DX517</a></u>
			
<b>Compatible Drive Types<sup>(2)</sup></b>		SATA LFF/SFF	
<b>Bays</b>		12	5
<b>Power Consumption<sup>(6)</sup></b>	<b>Access</b>	57.71 W	29.90 W
	<b>HDD Hibernation</b>	16.25 W	2.40 W
<b>Volume Type</b>		Host-dependent	
<b>Appearance</b>	<b>Dimensions (H × W × D)</b>	270 × 300 × 340 mm	157 × 248 × 233 mm
	<b>Weight</b>	9.02 kg	3.91 kg
<b>Warranty</b>		5 years	3 years <sup>(11)</sup>

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

- 64 KB block size for SMB sequential throughput values, and 4 KB block size for iSCSI random IOPS values. Systems with 12 bays or above were tested using RAID 6. DS Plus systems with 6 to 8 bays were tested with SSDs in a RAID 5 configuration. Please visit [www.synology.com/products/performance](http://www.synology.com/products/performance) for more information.
- Compatible drive types refer to supported bus interfaces. See each model's [compatibility list](#) for supported drives.
- Drives not included. Check our [compatibility list](#) for supported drives.
- Please visit [www.synology.com](http://www.synology.com) for the most up-to-date information on lane count, slot width, and supported add-in cards.
- Device licenses govern the amount of cameras that can be used. Each Synology NAS comes with 2 free device licenses, with additional licenses available for purchase. The DVA3221 and DVA1622 come standard with 8 free licenses.
- Power consumption will vary according to drive models installed and any additional add-in-cards or upgrades. The provided values are for reference only.
- Compatible with up to 2 × DX1222.
- Compatible with up to 2 × DX517.
- Compatible with up to 1 × DX1222.
- Compatible with up to 1 × DX517.
- See [Extended Warranty](#) or [Extended Warranty Plus](#) for more information and eligibility.

# Surveillance

IP cameras

## Bullet and Turret IP Cameras

TC500

BC500



Optical	Lens	2.8 mm (110° H, 56° V, 132° D LDC ON)	
	Aperture	F1.8	
	Night Vision	30 meters	
	Shutter Speed	1/16,000 s to 1/30 s	
	DORI	D: 60 m, O: 24 m, R: 12 m, I: 6 m	
Video	Max. Streaming Resolution	5 MP (2880×1620) @ 30 FPS	
	Sub Streaming Capability	1920×1080 @ 15 FPS or 1280×720 @ 30 FPS	
	Video Compression	H.264, H.265	
	Video Orientation	Rotation (0°, 90°, 180°, 270°), Flip, Mirror	
Audio	Microphone	Yes	
	Audio Compression	G.711	
General Specifications	Dimensions	Ø97 × 88 mm (Ø3.82 × 3.46")	Ø110 × 161 mm (Ø4.33 × 6.34")
	Weight	387 g (0.85 lbs)	353 g (0.78 lbs)
	Weather Resistance	IP67, IP66	
	Impact Resistance	IK10	-
	Power Source	PoE (802.3af) or 12V DC	
	Power Consumption	4.8 W	
	Ethernet	1 × RJ-45 10/100 Mbps Ethernet port	
	Edge Storage	MicroSD (up to 256 GB)	
	Operating Environment	Temperature (IR off)	-30°C to 50°C (-22°F to 122°F)
Temperature (IR on)		-30°C to 40°C (-22°F to 104°F)	
Relative Humidity		5% to 95% RH (non-condensing)	
Storage Environment	Temperature	-40°C to 60°C (-40°F to 140°F)	
	Relative Humidity	5% to 95% RH (non-condensing)	
Certification	IP67, IK10, FCC, IC, CE, BSMI, VCCI, RCM, UKCA, KC, JATE	IP67, FCC, IC, CE, BSMI, VCCI, RCM, UKCA, KC, JATE	
NDA Compliance	Yes		
TAA Compliance	Yes		
Environmental Safety	RoHS compliant, WEEE, REACH		
Warranty	3 years		

# Surveillance

IP cameras

## Wi-Fi Camera

CC400W



Optical	Lens	2.12 mm (125° H, 72° V, 145° D)	
	Aperture	F2.0	
	Night Vision	10 meters	
	Maximum AI Detection Distance	7 meters	
	Shutter Speed	1/16000 s~1/30 s	
	DORI	D: 45m, O: 18m, R: 9m, I: 4.5m	
Video	Max. Streaming Resolution	4 MP (2560×1440) @ 30 FPS	
	Sub Streaming Capability	1920×1080 @ 15 FPS or 1280×720 @ 30 FPS	
	Video Compression	H.264, H.265	
	Video Orientation	Rotation (0°, 90°, 180°, 270°), Flip, Mirror	
Audio	Microphone	Yes	
	Speaker	Yes	
	Audio Compression	G.711	
Wireless	Wireless Standard	IEEE 802.11a/b/g/n/ac	
	Wireless Frequency	2.4 GHz/5 GHz	
	Wireless Security	WPA-PSK/WPA2-PSK/WPA3-PSK	
General Specifications	Dimensions	Ø54 × 110 mm (Ø2.13 × 4.33")	
	Weight	200 g (0.44 lbs)	
	Weather Resistance	IP65	
	AC Adapter Input Voltage	100 V to 240 V AC	
	Power Consumption	2.85 W	
	Edge Storage	microSD (up to 256 GB)	
Operating Environment	Temperature	-20°C to 40°C (-4°F to 104°F)	
	Relative Humidity	5% to 95% RH (non-condensing)	
Storage Environment	Temperature	-40°C to 60°C (-40°F to 140°F)	
	Relative Humidity	5% to 95% RH (non-condensing)	
Certification	IP65, FCC, IC, CE, UKCA, RCM, BSMI, NCC, VCCI, JATE, TELEC, iDA		
NDA Compliance	Yes		
TAA Compliance	Yes		
Environmental Safety	REACH, WEEE, ROHS		
Warranty	2 years		

# Surveillance

## Storage systems


Network Video Recorders		
	DVA3221	DVA1622
		
Processor	Intel® Atom® C3538	Intel® Celeron® J4125
Memory/Max. Memory	8 GB DDR4, up to 32 GB	6 GB DDR4
Compatible Drive Type <sup>(1)</sup>	SATA LFF/SFF	SATA LFF
Internal Bays/Max. Bays <sup>(2)</sup>	4/14 <sup>(3)</sup>	2
External Ports	3 × USB 3.2 Gen 1 2 × Expansion port	2 × USB 3.2 Gen 1 1 × HDMI
Network Ports	4 × 1GbE	1 × 1GbE
Supported File Systems (Internal Drives)	Btrfs, ext4	
File/Network Protocols	SMB, AFP, NFS, WebDAV, FTP, iSCSI	
Supported RAID Types	Basic, JBOD, RAID 0/1/5/6/10, SHR	Basic, JBOD, RAID 0/1, SHR
File Sharing	Max. Number of User Accounts	2,048
	Max. Concurrent Connections (SMB, FTP, AFP)	2,000
Synology Surveillance Station	Max. IP Cameras <sup>(4)</sup>	32
	Total Frames Per Second (H.264)	960 FPS at 720p
Power Consumption <sup>(5)</sup>	Access	43.92 W
	HDD Hibernation	28.43 W
Appearance	Dimensions (H x W x D)	166 × 250 × 237 mm
	Weight	4.92 kg
Warranty	3 years <sup>(6)</sup>	

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

- Compatible drive types refer to supported bus interfaces. See each model's [compatibility list](#) for supported drives.
- Drives not included. Check our [compatibility list](#) for supported drives.
- Compatible with up to 2 × DX517.
- Device licenses govern the amount of cameras that can be used. Each Synology NAS comes with 2 free device licenses, with additional licenses available for purchase. The DVA3221 and DVA1622 come standard with 8 free licenses.
- Power consumption will vary according to drive models installed and any additional add-in-cards or upgrades. The provided values are for reference only.
- See [Extended Warranty](#) or [Extended Warranty Plus](#) for more information and eligibility.

# Surveillance

## TV-wall solution




VisualStation	
VS600HD	
	
Video output <sup>(1)</sup>	4K (3840 × 2160, 30 Hz) 1080p (1920 × 1080, 60 Hz)
Total Frames Per Second	600 FPS at 720p
Max. number of video streams displayed	50
Video codecs	H.265, H.264
Audio codecs	PCM, AMR, G.711, G.726
External Ports	2 × USB 3.2 Gen 1
Video output	2 × HDMI ports
Audio input/output	1 x Audio in (3.5 mm) 1 x Audio out (3.5 mm)
Network Ports	1 × 1Gbe
Power Consumption (Access) <sup>(2)</sup>	15.49 W
Appearance	Dimensions (H × W × D)
	Weight
Warranty	3 years

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information

- Power consumption will vary according to drive models installed and any additional add-in-cards or upgrades. The provided values are for reference only.
- 4K resolution is available when connected to one screen. With dual screens, the maximum resolution is 1080p.





# Data protection

ActiveProtect appliances

		DP Series		
		DP7400	DP320	DP340
				
Suggested Backup Source		83.5 TB	5 TB	14.5 TB
Cluster Role		Can function as a cluster controller or a managed server in a cluster	Can function as an individual server or a managed server in a cluster	Can function as an individual server or a managed server in a cluster
Form Factor		2U (RU)	Desktop	Desktop
Processor		AMD EPYC 7272	AMD Ryzen R1600	AMD Ryzen R1600
Memory		64 GB (Max. 512 GB)	8 GB	16 GB
Storage Configuration		2 × 3840 GB 2.5" SSD (RAID 1) 10 × 20 TB 3.5" HDD (RAID 6 + 1 Spare)	2 × 8 TB 3.5" HDD (RAID 1)	2 × 400 GB M.2 SSD (RAID 1) 4 × 8 TB 3.5" HDD (RAID 5)
Network Ports		1 × 1GbE RJ-45 (Management) 2 × 10GbE RJ-45 (Data transfer)	1 × 1GbE RJ-45 (Management) 1 × 1GbE RJ-45 (Data transfer)	1 × 1GbE RJ-45 (Management) 1 × 10GbE RJ-45 (Data transfer)
Power Consumption	Access	180.5 W	21.07 W	35.51 W
	Idle	145.25 W	15.42 W	25.74 W
Appearance	Dimensions (H x W x D)	88 × 430.5 × 692 mm	166 × 106 × 223 mm	166 × 199 × 223 mm
	Weight	23.4 kg	2.9 kg	5.2 kg
Warranty		5 years	3 years	3 years

# Synology routers

## Wi-Fi routers

		Wi-Fi Routers			
		WRX560	RT6600ax	RT2600ac	MR2200ac
					
CPU Frequency		4-core 1.4 GHz	4-core 1.8 GHz	2-core 1.7 GHz	4-core 717 MHz
RAM		512 MB DDR4	1 GB DDR3L	512 MB DDR3L	256 MB DDR3L
Layer 4 & 7 Traffic Control Hardware Acceleration		Yes	Yes		-
Wi-Fi Connectivity	Wi-Fi Generation	Wi-Fi 6	Wi-Fi 6	Wi-Fi 5	
	Wireless Standards	IEEE 802.11a/b/g/n/ac/ax, simultaneous dual-band Wi-Fi		IEEE 802.11a/b/g/n/ac, simultaneous tri-band Wi-Fi	IEEE 802.11a/b/g/n/ac, simultaneous tri-band Wi-Fi
	5 GHz - 1	2,400 Mbps	4,800 Mbps	1,733 Mbps	867 Mbps
	5 GHz - 2	-	1,200 Mbps	-	867 Mbps
	2.4 GHz	600 Mbps	600 Mbps	800 Mbps	400 Mbps
Wi-Fi Security		WPA/WPA2-Personal, WPA/WPA2-Enterprise, WPA2/WPA3-Personal, WPA3-Personal/Enterprise, OWE		WPA/WPA2-Personal, WPA/WPA2-Enterprise, WPA2/WPA3-Personal, WPA3-Personal/Enterprise, OWE	
Roaming		802.11k/v/r support		802.11k/v/r support	
Max. Connected Devices <sup>(1)</sup>		150	200	100	90
Recommended Max. Number of Wi-Fi Points		1 Primary + 6 Wi-Fi points <sup>(2)</sup> 1 Primary + 12 Wi-Fi points <sup>(3)</sup>	1 Primary + 6 Wi-Fi points <sup>(2)</sup> 1 Primary + 12 Wi-Fi points <sup>(3)</sup>		
Networking	LAN	3 × 1GbE 1 × 2.5GbE	3 × 1GbE 1 × 2.5GbE	4 × 1GbE 3 × 1GbE (Dual WAN)	1 × 1GbE
	WAN	1 × 1GbE 1 × 2.5GbE (Dual WAN)	1 × 1GbE 1 × 2.5GbE (Dual WAN)	1 × 1GbE 2 × 1GbE (Dual WAN)	1 × 1GbE
External Ports		1 × USB 3.2 Gen 1	1 × USB 3.2 Gen 1	1 × USB 3.2 Gen 1 1 × USB 2.0 1 × SD Card	1 × USB 3.2 Gen 1
Power Consumption	Access	10.80 W	11.11 W	10.80 W	12.95 W
	Idle	7.94 W	6.77 W	7.94 W	5.21 W
Appearance	Dimensions (H × W × D)	233 × 194 × 66 mm	175 × 320 × 200 mm (antennas in upright position)	77 × 280 × 169 mm (without antennas)	154 × 199 × 65 mm
	Weight	1.35 kg	1.60 kg	0.695 kg	0.45 kg
Warranty		2 years		2 years	

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. Based on Synology internal testing. While more clients are supported, the performance of connected devices will vary depending on the network environment, client bandwidth demands, and settings.
2. In an all-wireless uplink connection environment.
3. In an all-wired uplink connection environment.

# Bee Series

Portable backup hub



<b>Capacity</b>		1 TB / 2 TB / 4 TB
<b>Connector</b>		USB-C
<b>Interface</b>		USB 3.2 Gen 2 (10Gbps)
<b>Speed<sup>(1)</sup></b>		Up to 1050 MB/s
<b>Max. Number of Mobile Phone Pairings</b>		5
<b>File Versions</b>		5
<b>System requirements</b>	<b>Desktop</b>	Windows 10 (1809 or later) Windows 11 macOS 12 and newer
	<b>Mobile App</b>	iOS 15 or later Android 10 or later
<b>Temperature</b>	<b>Operating Temperature</b>	0°C to 45°C (32°F to 113°F)
	<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Appearance</b>	<b>Dimensions (H x W x D)</b>	65 x 65 x 15 mm
	<b>Weight</b>	43 g
<b>Certifications</b>		RoHS, FCC, CE, BSMI, VCCI, RCM, KC, UKCA, BIS
<b>Warranty</b>		3 years

# Bee Series

Personal cloud storage



<b>Capacity<sup>(2)</sup></b>		4 TB
<b>Processor</b>		Realtek RTD1619B
<b>Memory</b>		1 GB DDR4
<b>LAN Port</b>		1 x 1GbE RJ-45
<b>External Ports</b>		1 x USB-A 3.2 Gen 1 port 1 x USB-C 3.2 Gen 1 port
<b>Max. Number of User Accounts</b>		9
<b>File Versions</b>		32
<b>System requirements</b>	<b>Desktop</b>	Windows 10 64-bit (build 19041 or above) Windows 11 macOS 12.3 or above
	<b>BeePhotos and BeeFiles Mobile Apps</b>	iOS 15 or above Android 8 or above
<b>Power Consumption</b>	<b>Access</b>	7.85 W
	<b>HDD Hibernation</b>	1.65 W
<b>Operating Environment</b>	<b>Temperature</b>	0°C to 35°C (32°F to 95°F)
	<b>Relative Humidity</b>	8% to 80% RH
<b>Storage Environment</b>	<b>Temperature</b>	-20°C to 60°C (-5°F to 140°F)
	<b>Relative Humidity</b>	5% to 95% RH
<b>Appearance</b>	<b>Dimensions (H x W x D)</b>	148.0 x 62.6 x 196.3 mm
	<b>Weight</b>	820 g
<b>Certifications</b>		RoHS, FCC, CE, BSMI, RCM, EAC, UKCA, KC, VCCI
<b>Warranty<sup>(3)</sup></b>		3 years

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information

1. The speed of data transfer may be affected by various factors such as host device, Wi-Fi speeds, usage conditions, and other factors.
2. 1 TB = 1 trillion bytes. Actual usable capacity is approximately 3.45 TB.
3. The warranty period starts from the purchase date as stated on your purchase receipt. [Learn more](#)





# Storage & add-ons

## Enterprise Series SSD

		Enterprise Series M.2 NVMe SSD			
		SNV3410-400G	SNV3510-400G	SNV3410-800G	SNV3510-800G
					
Capacity		400 GB	400 GB	800 GB	
Form Factor		M.2 2280	M.2 22110	M.2 2280	M.2 22110
Interface		NVMe PCIe 3.0 ×4		NVMe PCIe 3.0 ×4	
Performance	Sequential Read (128 KB, QD32) <sup>(1)</sup>	3,000 MB/s	3,000 MB/s	3,100 MB/s	
	Sequential Write (128 KB, QD32) <sup>(1)</sup>	750 MB/s	750 MB/s	1,000 MB/s	
	Random Read (4 KB, QD256) <sup>(1)</sup>	225,000 IOPS	225,000 IOPS	400,000 IOPS	
	Random Write (4 KB, QD256) <sup>(1)</sup>	45,000 IOPS	45,000 IOPS	70,000 IOPS	
Endurance and Reliability	Terabytes Written (TBW) <sup>(2)</sup>	491 TB	491 TB	1,022 TB	
	Mean Time Between Failures (MTBF)	1.8 million hours		1.8 million hours	
	Uncorrectable Bit Error Rates (UBER)	< 1 sector per 10 <sup>17</sup> bits read		< 1 sector per 10 <sup>17</sup> bits read	
	Power Loss Protection <sup>(3)</sup>	-	Yes	-	Yes
	Warranty <sup>(4)</sup>	5 years		5 years	
Power Consumption	Supply Voltage	3.3 V (±5%)		3.3 V (±5%)	
	Active Read (Typ.)	3.50 W	4.00 W	5.50 W	6.20 W
	Active Write (Typ.)	3.30 W	3.60 W	4.60 W	5.10 W
	Idle	1.60 W	1.60 W		1.70 W
Temperature	Operating Temperature	0°C to 70°C (32°F to 158°F)		0°C to 70°C (32°F to 158°F)	
	Storage Temperature	-40°C to 85°C (-40°F to 185°F)		-40°C to 85°C (-40°F to 185°F)	
Others	Dimensions (H × W × D)	3.5 × 22 × 80 mm	4.5 × 22 × 110 mm	3.5 × 22 × 80 mm	4.5 × 22 × 110 mm
	Certifications	FCC, CE, EAC, BSMI, VCCI, RCM, KC, RoHS, UKCA		FCC, CE, EAC, BSMI, VCCI, RCM, KC, RoHS, UKCA	

# Storage & add-ons

## Enterprise Series SSD


		Enterprise Series SATA SSD				
		SAT5221-480G	SAT5221-960G	SAT5221-1920G	SAT5221-3840G	SAT5210-7000G
						
Capacity		480 GB	960 GB	1.92 TB	3.84 TB	7 TB
Form Factor		2.5" 7mm			2.5" 7 mm	
Interface		SATA 6 Gb/s			SATA 6 Gb/s	
Performance	Sequential Read (128 KB, QD32) <sup>(1)</sup>	500 MB/s		500 MB/s		530 MB/s
	Sequential Write (128 KB, QD32) <sup>(1)</sup>	500 MB/s		500 MB/s		
	Random Read (4 KB, QD256) <sup>(1)</sup>	90,000 IOPS		90,000 IOPS		97,000 IOPS
	Random Write (4 KB, QD256) <sup>(1)</sup>	30,000 IOPS		30,000 IOPS		50,000 IOPS
Endurance and Reliability	Terabytes Written (TBW) <sup>(2)</sup>	>900 TB	>1,700 TB	>3,500 TB	>7,000 TB	>10,000 TB
	Mean Time Between Failures (MTBF)	1,500,000 hours			1,500,000 hours	
	Uncorrectable Bit Error Rates (UBER)	<1 sector per 10 <sup>17</sup> bits read			< 1 sector per 10 <sup>17</sup> bits read	
	Power Loss Protection <sup>(3)</sup>	Yes			Yes	
	Warranty <sup>(4)</sup>	5 years			5 years	
Power Consumption	Supply Voltage	5 V (± 5%)			5 V (±5%)	
	Active Read (Typ.)	3 W	3.5 W	4.5 W	4.5 W	3.3 W
	Active Write (Typ.)	3.5 W	4 W	5 W	5 W	5.1 W
	Idle	1.2 W	1.2 W	1.2 W	1.2 W	1.8 W
Temperature	Operating Temperature	0°C to 70°C (32°F to 158°F)			0°C to 70°C (32°F to 158°F)	
	Storage Temperature	-40°C to 85°C (-40°F to 185°F)			-40°C to 85°C (-40°F to 185°F)	
Others	Dimensions (H × W × D)	7 mm x 69.85 mm x 100 mm			7 mm x 69.85 mm x 100 mm	
	Certifications	FCC, CE, EAC, BSMI, VCCI, KC, RoHS, UKCA			FCC, CE, EAC, BSMI, VCCI, KC, RoHS, UKCA	

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information. Check our [compatibility list](#) for supported devices.

1. Performance measured using FIO on Linux with Queue Depth 32/256 (128 KB = 131,072 bytes; 4 KB = 4,096 bytes).
2. The endurance rating is calculated based on a JESD219A enterprise workload.
3. Power loss protection circuit design is available on SNV3510 Series and SAT5210 Series to further prevent data corruption in case of power failure.
4. The 5-year limited warranty provides coverage until the end of the warranty period or until the endurance usage of the drive is reached, whichever comes first.

# Storage & add-ons

## Enterprise Series HDD

		Enterprise Series SATA HDD					
		HAT5300-4T	HAT5310-8T	HAT5300-12T	HAT5300-16T	HAT5310-20T	
							
Capacity <sup>(1)</sup>		4 TB	8 TB	12 TB	16 TB	20 TB	
Form Factor <sup>(2)</sup>		3.5"			3.5"		
Interface		SATA			SATA		
Sector Size		512e			512e		
Performance	Rotational Speed	7,200 rpm			7,200 rpm		
	Interface Speed	6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s			6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s		
	Buffer Size <sup>(3)</sup>	256 MB			256 MB	512 MB	
	Maximum Sustained Data Transfer Speed (Typ.)	255 MB/s	260 MB/s	254 MB/s	275 MB/s	281 MB/s	
Endurance and Reliability	Mean Time Between Failures (MTBF) <sup>(4)</sup>	2 million hours			2.5 million hours		
	Workload Rating <sup>(5)</sup>	550 TB Transferred per Year			550 TB Transferred per Year		
	Warranty <sup>(6)</sup>	5 years			5 years		
Power Consumption	Supply Voltage <sup>(7)</sup>	12 V (±10%) / 5 V (+10/-7%)			12 V (±10%) / 5 V (+10/-7%)		
	Active Idle (Typ.) <sup>(8)</sup>	4.07 W	5.61 W	4.25 W	4.00 W	4.38 W	
	Operating (Typ.)	7.76 W	9.29 W	7.83 W	7.63 W	8.11 W	
Environmental Conditions	Temperature	Operating	5°C to 60°C (41°F to 140°F)			5°C to 60°C (41°F to 140°F)	
		Non-Operating	-40°C to 70°C (-40°F to 158°F)			-40°C to 70°C (-40°F to 158°F)	
	Shock	Operating	686 m/s <sup>2</sup> (2 ms duration)			686 m/s <sup>2</sup> (2 ms duration)	490 m/s <sup>2</sup> (2 ms duration)
		Non-Operating	2,940 m/s <sup>2</sup> (2 ms duration)	2,450 m/s <sup>2</sup> (2 ms duration)	2,450 m/s <sup>2</sup> (2 ms duration)		1,960 m/s <sup>2</sup> (2 ms duration)
	Vibration	Operating	5 Hz to 300 Hz: 7.35 m/s <sup>2</sup> , 300 Hz to 500 Hz: 2.45 m/s <sup>2</sup>			5 Hz to 300 Hz: 7.35 m/s <sup>2</sup> , 300 Hz to 500 Hz: 2.45 m/s <sup>2</sup>	
		Non-Operating	5 Hz to 500 Hz: 29.4 m/s <sup>2</sup>			5 Hz to 500 Hz: 29.4 m/s <sup>2</sup>	
	Altitude	Operating	-304.8 m to 3,048 m			-304.8 m to 3,048 m	
		Non-Operating	-304.8 m to 12,192 m			-304.8 m to 12,192 m	
	Relative Humidity	Operating	5% to 90% R.H. (No condensation)			5% to 90% R.H. (No condensation)	
		Non-Operating	5% to 95% R.H. (No condensation)			5% to 95% R.H. (No condensation)	
Others	Dimensions (H × W × D)	26.1 × 101.85 × 147 mm			26.1 × 101.85 × 147 mm		
	Weight	693 g	720 g	720 g			
	Certifications	CE, EAC, BSMI, RCM, KC, ICES, UKCA, TUV, UL, RoHS			CE, EAC, BSMI, RCM, KC, ICES, UKCA, TUV, UL, RoHS		




# Storage & add-ons

## Enterprise & Plus Series HDD

		Enterprise Series SAS HDD				
		HAS5300-8T	HAS5300-12T	HAS5300-16T	HAS5310-20T	
						
Capacity <sup>(1)</sup>		8 TB	12 TB	16 TB	20 TB	
Form factor <sup>(2)</sup>		3.5"		3.5"		
Interface		SAS		SAS		
Sector Size		512e		512e		
Performance	Rotational Speed	7,200 rpm		7,200 rpm		
	Interface Speed	12.0 Gb/s, 6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s			12.0 Gb/s, 6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s	
	Buffer Size <sup>(3)</sup>	256 MB	256 MB	512 MB		
	Maximum Sustained Data Transfer Speed (Typ.)	241 MB/s	254 MB/s	275 MB/s	281 MB/s	
Reliability	Mean Time Between Failures (MTBF) <sup>(4)</sup>	2.5 million hours				
	Workload Rating <sup>(5)</sup>	550 TB Transferred per Year			550 TB Transferred per Year	
	Warranty <sup>(6)</sup>	5 years				
Power Consumption	Supply Voltage <sup>(7)</sup>	12 V (±10%) / 5 V (+10/-7%)				
	Active Idle (Typ.) <sup>(8)</sup>	6.62 W	4.36 W	4.46 W	4.74 W	
	Operating (Typ.)	9.87 W	7.80 W	8.12 W	8.46 W	
Environmental Conditions	Temperature	Operating	5°C to 60°C (41°F to 140°F)			
		Non-Operating	-40°C to 70°C (-40°F to 158°F)			
	Shock	Operating	686 m/s <sup>2</sup> (2 ms duration)	686 m/s <sup>2</sup> (2 ms duration)		490 m/s <sup>2</sup> (2 ms duration)
		Non-Operating	2,450 m/s <sup>2</sup> (2 ms duration)	2,450 m/s <sup>2</sup> (2 ms duration)		1,960 m/s <sup>2</sup> (2 ms duration)
	Vibration	Operating	5 Hz to 300 Hz: 7.35 m/s <sup>2</sup> , 300 Hz to 500 Hz: 2.45 m/s <sup>2</sup>			
		Non-Operating	5 to 500 Hz: 29.4 m/s <sup>2</sup> 5 Hz			5 to 500 Hz: 29.4 m/s <sup>2</sup> 5 Hz
	Altitude	Operating	-304.8 m to 3,048 m			-304.8 m to 3,048 m
		Non-Operating	-304.8 m to 12,192 m			-304.8 m to 12,192 m
	Relative Humidity	Operating	5% to 90% R.H. (No condensation)			5% to 90% R.H. (No condensation)
		Non-Operating	5% to 95% R.H. (No condensation)			5% to 95% R.H. (No condensation)
Others	Dimensions (H × W × D)	26.1 × 101.85 × 147 mm			26.1 × 101.85 × 147 mm	
	Weight	770 g			720 g	
	Certifications	CE, EAC, BSMI, RCM, KC, ICES, UKCA, TUV, UL, RoHS			CE, EAC, BSMI, RCM, KC, ICES, UKCA, TUV, UL, RoHS	

# Storage & add-ons

## Enterprise & Plus Series HDD

		Plus Series SATA HDD						
		HAT3300-2T	HAT3300-4T	HAT3300-6T	HAT3310-8T	HAT3310-12T	HAT3310-16T	
								
Capacity <sup>(1)</sup>		2 TB	4 TB	6 TB	8 TB	12 TB	16T	
Form factor <sup>(2)</sup>		3.5"			3.5"			
Interface		SATA			SATA			
Sector Size		512e			512e			
Performance	Rotational Speed	5,400 rpm		5,400 rpm	7,200 rpm			
	Interface Speed	6 Gb/s			6 Gb/s			
	Buffer Size <sup>(3)</sup>	256 MB		256 MB		512 MB		
	Maximum Sustained Data Transfer Speed (Typ.)	180 MB/s	202 MB/s	202 MB/s	260 MB/s	281 MB/s		
Reliability	Mean Time Between Failures (MTBF) <sup>(4)</sup>	1 million hours		1 million hours		1.2 million hours		
	Workload Rating <sup>(5)</sup>	180 TB Transferred per Year			180 TB Transferred per Year			
	Warranty <sup>(6)</sup>	3 years			3 years			
Power Consumption	Supply Voltage <sup>(7)</sup>	12 V (±10%) / 5 V (±5%)		12 V (±10%) / 5 V (±5%)		12 V (±10%) / 5 V (+10/-7%)		
	Active Idle (Typ.) <sup>(8)</sup>	2.8 W	3.96 W	3.40 W	5.61 W	3.30 W	4.14 W	
	Operating (Typ.)	3.1 W	4.85 W	5.30 W	8.41 W	6.85 W	7.48 W	
Environmental Conditions	Temperature	Operating	0°C to 65°C (32°F to 149°F)		0°C to 65°C (32°F to 149°F)	5°C to 65°C (41°F to 149°F)	5°C to 60°C (41°F to 140°F)	
		Non-Operating	-40°C to 70°C (-40°F to 158°F)		-40°C to 70°C (-40°F to 158°F)			
	Shock	Operating	784.8 m/s <sup>2</sup> (2 ms duration)		687 m/s <sup>2</sup> (2 ms duration)	686 m/s <sup>2</sup> (2 ms duration)		
		Non-Operating	2,943 m/s <sup>2</sup> (2 ms duration)		2,943 m/s <sup>2</sup> (2 ms duration)	2,450 m/s <sup>2</sup> (2 ms duration)		
	Vibration	Operating	10 Hz to 22 Hz: 2.45 m/s <sup>2</sup> , 22 Hz to 350 Hz: 4.90 m/s <sup>2</sup> , 350 Hz to 500 Hz: 2.45 m/s <sup>2</sup> ,		10 Hz to 22 Hz: 2.45 m/s <sup>2</sup> , Limited displacement, 22 Hz to 350 Hz: 4.90 m/s <sup>2</sup> , 350 Hz to 500 Hz: 2.45 m/s <sup>2</sup> ,	2 Hz to 300 Hz: 7.35 m/s <sup>2</sup> , 300 Hz to 350 Hz: 4.90 m/s <sup>2</sup> , 350 Hz to 500 Hz: 2.45 m/s <sup>2</sup>	5 Hz to 300 Hz: 7.35 m/s <sup>2</sup> , 300 Hz to 500 Hz: 2.45 m/s <sup>2</sup>	
		Non-Operating	5 Hz to 500 Hz: 29.43 m/s <sup>2</sup>		5 Hz to 22 Hz: 29.43 m/s <sup>2</sup> , Limited displacement 22 Hz to 500 Hz: 29.43 m/s <sup>2</sup>	5 Hz to 500 Hz: 29.4 m/s <sup>2</sup>		
	Altitude	Operating	-304.8 m to 3,048 m		-304.8 m to 3,048 m			
		Non-Operating	-304.8 m to 12,192 m		-304.8 m to 12,192 m			
	Relative Humidity	Operating	5% to 90% R.H. (No condensation)		5% to 90% R.H. (No condensation)			
		Non-Operating	5% to 95% R.H. (No condensation)		5% to 95% R.H. (No condensation)			
Others	Dimensions (H × W × D)	20.20 × 101.85 × 147 mm		20.20 × 101.85 × 147 mm	26.11 mm x 101.85 mm x 147 mm			
	Weight	415 g	490 g	610 g	720 g			
	Certifications	CE, BSMI, RCM, KC, UKCA, TUV, UL, RoHS			CE, RCM, BSMI, KC, UKCA, UL, TUV, ICES, RoHS			

Note: Model specifications are subject to change without advance notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information. Check our [compatibility list](#) for supported devices.

1. Definition of capacity: In the context of hard drives, a terabyte (TB) is defined as 1,000,000,000,000 bytes. However, computer operating systems report storage capacity using powers of 2, leading to a definition of 1 GB =  $2^{30}$  = 1,073,741,824 bytes. Operating systems will therefore report less storage capacity. Available storage capacity will vary based on file size, formatting, settings, software, and operating system. Actual formatted capacity may vary.
2. 3.5" refers to the HDD form factor. It does not describe a drive's physical size.
3. A mebibyte (MiB) means  $2^{20}$  bytes, or 1,048,576 bytes. MB/s means  $10^6$  bytes.
4. Mean Time Between Failure (MTBF) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTBF.
5. Workload is defined as the amount of data written, read, or verified by commands from host system.
6. The warranty period starts from the purchase date as stated on your receipt of purchase. Visit [www.synology.com/company/legal/warranty](http://www.synology.com/company/legal/warranty) for more information.
7. Input voltages are specified at the HDD connector side, during HDD ready state. Make sure the value is no less than -0.3 V DC (less than -0.6 V, 0.1 ms) when turning the power on or off.
8. Idle specification is based on the use of Idle-A.






# Storage & Add-ons

## Add-in Cards

		Add-in Cards			
		M2D18	M2D20	E10M20-T1	
					
General	Type	M.2 SSD Adapter Card	M.2 SSD Adapter Card	M.2 SSD & 10GbE Combo Adapter Card	
	Host Bus Interface	PCIe 2.0 x8	PCIe 3.0 x8		
	Dimensions	70 × 180 × 18 mm	71.75 × 181.9 × 15.8 mm	71.75 × 200.05 × 17.70 mm	
	Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)		
	Storage Temperature	-20°C to 60°C (-5°F to 140°F)	-20°C to 60°C (-5°F to 140°F)		
	Relative Humidity	5% to 95% RH	5% to 95% RH		
	Warranty <sup>(1)</sup>	3 years	5 years		
Storage	Storage Interface	PCIe NVMe	PCIe NVMe		
	Supported Form Factor	2280 / 2260 / 2242	22110 / 2280		
	Connector	Type	M-key	M-key	
		Quantity	2 slots	2 slots	
Network	Data Transfer Rates	-	-	10 Gbps	
	Connector	-	-	RJ-45	
	IEEE Specification Compliance	-	-	IEEE 802.3x Flow Control IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3bz 2.5 Gbps/5 Gbps Ethernet IEEE 802.3an 10 Gbps Ethernet	

# Storage & Add-ons

## Add-in Cards

		Add-in Cards					
		E25G30-F2	E10G30-F2	E10G30-T2	E10G18-T1	E10G22-T1-Mini	
							
General	Type	Network Interface Card		Network Interface Card		Network Upgrade Module	
	Host Bus Interface	PCIe 3.0 ×8		PCIe 3.0 ×8	PCIe 3.0 ×4	PCIe 3.0 ×2	
	Dimensions	69 × 168 × 17.3 mm		68.9 × 167.7 × 14.7 mm	86.0 × 68.1 × 13.6 mm	26.37 × 45.38 × 75.7 mm	
	Operating Temperature	0°C to 40°C (32°F to 104°F)		0°C to 40°C (32°F to 104°F)			
	Storage Temperature	-20°C to 60°C (-5°F to 140°F)		-20°C to 60°C (-5°F to 140°F)			
	Relative Humidity	5% to 95% RH		5% to 95% RH			
	Warranty <sup>(1)</sup>	5 years <sup>(1)</sup>		5 years <sup>(1)</sup>		3 years	
Storage	Storage Interface	-		-		-	
	Supported Form Factor	-		-		-	
	Connector	Type	-		-		-
		Quantity	-		-		-
Network	Data Transfer Rates	25/10 Gbps	10 Gbps	10 Gbps		10/5/2.5/1 Gbps / 100 Mbps	
	Connector	SFP28	SFP+	RJ-45			
	IEEE Specification Compliance	IEEE 802.3ad Link Aggregation IEEE 802.3ae 10 Gbps Ethernet IEEE 802.3by 25 Gbps Ethernet	IEEE 802.3ad Link Aggregation IEEE 802.3ae 10 Gbps Ethernet	IEEE 802.3x Flow Control IEEE 802.3ad Link Aggregation IEEE 802.3ab Gigabit Ethernet IEEE 802.3an 10 Gbps Ethernet	IEEE 802.3x Flow Control IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3bz 2.5 Gbps/5 Gbps Ethernet IEEE 802.3an 10 Gbps Ethernet	IEEE 802.3an 10GBASE-T 10 Gbps Ethernet IEEE 802.3bz NBASE-T 2.5/5 Gbps Ethernet IEEE 802.3ab 1000BASE-T 1 Gbps Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3x Flow Control	

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1. The warranty period starts from the purchase date as stated on your purchase receipt. Learn more at [www.synology.com/company/legal/warranty](http://www.synology.com/company/legal/warranty).

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Our website [www.synology.com](http://www.synology.com) features a comprehensive knowledge base and all the latest information related to Synology and its products, including more details about system requirements and feature limitations.



## Knowledge Center

[kb.synology.com](http://kb.synology.com)



## Downloads

[synology.com/support/download](http://synology.com/support/download)



## NAS Selector

[synology.com/support/nas\\_selector](http://synology.com/support/nas_selector)



## NVR Selector

[synology.com/support/nvr\\_selector](http://synology.com/support/nvr_selector)



## RAID Calculator

[synology.com/support/RAID\\_calculator](http://synology.com/support/RAID_calculator)



## Community

[community.synology.com](http://community.synology.com)



## Where to Buy

[synology.com/wheretobuy/locate\\_synology\\_partner](http://synology.com/wheretobuy/locate_synology_partner)

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