

## QNAP DS420+ NAS Compact Ethernet LAN Black J4025

**Brand :** QNAP

**Product code:** DS420+/48TB-IW

**Product name :** DS420+

- 2-core 2.0 GHz, burst up to 2.9 GHz
- 2 x built-in M.2 2280 NVMe SSD slots
- Average 15% boost to computing-intensive applications
- 2 x 1GbE LAN ports

Intel Celeron J4025 (2x 2GHz), 2 GB DDR4, 4x 2.5/3.5" SATA, 2x M.2 NVMe, 2x RJ-45, 2x USB 3.0 QNAP DS420+. Total installed storage capacity: 48 TB, Installed storage drive type: HDD, Supported storage drive types: HDD & SSD. Processor family: Intel® Celeron®, Processor manufacturer: Intel, Processor model: J4025. Internal memory: 2 GB, Internal memory type: DDR4, Maximum RAM supported: 6 GB. Ethernet LAN data rates: 10,100,1000 Mbit/s, Supported network protocols: SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP,.... Chassis type: Compact, Cooling type: Active, Product colour: Black



Storage		Performance	
Supported storage drive interfaces	Serial ATA II, Serial ATA III	Noise level	19.8 dB
Storage drive sizes supported	2.5,3.5,M.2	Third-party support	✓
Number of M.2 (M & B) slots	2	Snapshot	✓
RAID support *	✓	Share folder access right management	✓
RAID levels	0, 1, 5, 6, 10, JBOD	Security algorithms	HTTPS, SSH, SSL/TLS
Online RAID migration	✓	Access Control List (ACL)	✓
Online RAID expansion	✓	Reset button	✓
Hot-swap drive bays	✓	On/off switch	✓
Supported file systems	BTRFS, Fat, HFS+, NTFS, exFAT, ext3, ext4	Built-in FTP server	✓
Storage drives installed *	✓	Browser supported	Chrome, Firefox, Edge, Internet Explorer, Safari
Total installed storage capacity *	48 TB	System log	✓
Number of storage drives installed *	4	Hot spare	✓
Number of storage drives supported *	6	Password authentication	✓
Installed storage drive type *	HDD	Share folder	CIFS/AFP/NFS/FTP/WebDAV
Supported storage drive types *	HDD & SSD	Software	
Processor		Windows operating systems supported	✓
Processor manufacturer *	Intel	Mac operating systems supported	✓
Processor family *	Intel® Celeron®	Power	
Processor model *	J4025	Power supply location	External
Processor frequency *	2 GHz	Power supply unit (PSU) capacity	90 W
Processor boost frequency	2.9 GHz	Power consumption (typical)	28.3 W
CPU configuration (max)	1	Power consumption (HDD standby)	8.45 W
Memory		AC input voltage	100 - 240 V
Internal memory type	DDR4	AC input frequency	50 - 60 Hz
Maximum RAM supported	6 GB		
Memory slots	1		
Internal memory *	2 GB		

<b>Network</b>		<b>Weight &amp; dimensions</b>	
Ethernet LAN *	✓	Width *	199 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth *	223 mm
iSCSI support	✓	Height *	166 mm
Wake-on-LAN ready	✓	<b>Packaging content</b>	
Supported network protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV	External power adapter	✓
Link aggregation	✓	Cables included	AC, LAN (RJ-45)
<b>Ports &amp; interfaces</b>		<b>Technical details</b>	
USB port *	✓	Sustainability certificates	RoHS
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2	Compliance certificates	RoHS
Ethernet LAN (RJ-45) ports *	2	<b>Processor special features</b>	
<b>Design</b>		Embedded options available	✗
Chassis type *	Compact	Enhanced Intel SpeedStep Technology	✓
Cooling type *	Active	Execute Disable Bit	✓
Product colour	Black	Idle States	✓
Number of fans	2 fan(s)	Intel 64	✓
Fan diameter	9.2 cm	Intel Virtualization Technology (VT-x)	✓
Drive bay locking	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
LED indicators	HDD, Power, Status	Intel VT-x with Extended Page Tables (EPT)	✓
Cable lock slot	✓	<b>Operational conditions</b>	
Cable lock slot type	Kensington	Operating temperature (T-T)	0 - 40 °C
<b>Performance</b>		Operating relative humidity (H-H)	5 - 95%
Type *	NAS	Storage temperature (T-T)	-20 - 60 °C
Device class *	Home & Home Office	Operating altitude	0 - 5000 m
Backup function *	✓	<b>Logistics data</b>	
Backup features	Cloud, iSCSI LUN	Harmonized System (HS) code	84714100
Multilingual support	✓	<b>Other features</b>	
Number of users	2048 user(s)	Digital Living Network Alliance (DLNA) certified	✓

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