

ТЕХНИКИЙН ТОДОРХОЙЛОЛТ

№	Бараа болон холбогдох үйлчилгээний нэр	Техникийн тодорхойлолт болон стандарт
Дата хамгаалах/хадгалах төхөөрөмж – 1 ширхэг		
1	Төрөл	Rackmount Datastorage
2	Процессорын нэр	AMD EPYC 7272 12-core (24 thread) 2,9 GHz, max boost clock up to 3.2Ghz
3	Санах ой	64 GB DDR4 ECC RDIMM x 8 ширхэг (512GB)
4	Хатуу диск	Storage Capacity SATA HDDS HAT5300-16TB 192TB (16TBx12ширхэг)
5	Сүлжээ	RJ-45 1Gbe Lan port - 4 RJ-45 10Gbe Lan port – 2 USB 3.2 Gen 1 Port – 2
6	Баталгаат хугацаа	3 жил буюу түүнээс дээш
7	PCIe	2 x Gen3 x 8 slots (x8 link)
8	Системийн сэнс	80mm x 80mm x 4 ширхэг
9	Сэнсний хурдны тохируулга	<ul style="list-style-type: none"> • Full-speed Mode • Cool Mode • Quiet Mode
10	AC input Power Voltage	100v to 240V AC Power Frequency- 50/60 Hz Single Phase
11	Хэвийн ажиллах температур	<ul style="list-style-type: none"> • Operating Temperature 0°C to 35°C (32°F to 95°F) • Storage Temperature -20°C to 60°C (-5°F to 140°F) • Relative Humidity 5% to 95% RH
Программ хангамжын үзүүлэлт		
1	Үйлдлийн систем	DSM 7,2 upgrade
2	Maximum Single Volume Size	<ul style="list-style-type: none"> • 1 PB (64 GB memory required, for RAID 6 groups only) • 200TB
3	Дэмжих RAID төрөл	<ul style="list-style-type: none"> • RAID F1 • BASIC • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10
3	RAID Migration	<ul style="list-style-type: none"> • BASIC to RAID 1 • BASIC to RAID 5 • RAID 1 to RAID 5 • RAID 5 to RAID 6
4	File protocol	SMB/AFP/NFS/FTP/WebDAV
5	Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion)	10,000

6	Хэрэглэгчийн аккаунт үүсгэх	Хамгийн ихдээ 16,000 аккаунт
7	Хэрэглэгчийн групп үүсгэх	Хамгийн ихдээ 512 групп
8	Хуудас хуваалцах	Хамгийн ихдээ 512 хуудас
9	Сүлжээний протокол	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, Fibre Channel, HTTP, HTTPs, FTP, SNMP, LDAP, CalDAV
10	VPN серверийн холболт	Хамгийн ихдээ 60 vpn серверт холбогдох
11	Out of band (OOB) management	Power on, shutdown, force shutdown, force reboot, reset system, view DSM logs, monitor DSM logs, view OOB log
12	Hybrid share	Maximum Hybrid share Folders- 30
13	Hyper Backup	<ul style="list-style-type: none"> • Folder and packages backup • Entire System Backup • Full-system backup requires DSM 7.2 or later
14	Log center	Syslog Events per Second 3,000
Packages and Applications		
1	File station	Provides virtual drives, remote folders, Windows® ACL editor, compression/extraction of archived files, bandwidth control for specific users/groups, creation of sharing links, and transfer logs
2	Hybrid Share	Efficiently synchronizes files across sites by keeping shared data on Storage and streaming files to NAS worldwide on request. Frequently requested files are cached at each site for low-latency access
3	FTP Server:	Supports bandwidth control for TCP connections, custom FTP passive port ranges, anonymous FTP, FTP over TLS/SSL and SFTP protocols, network booting with TFTP and PXE support, and transfer logs
4	Presto file server	Enables high-speed data transfer over WAN between NAS and desktop platforms through the exclusive SITA technology
5	Cloud sync	Offers one or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, Backblaze B2, Baidu Cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, Tencent COS, WebDAV servers, and Yandex Disk
6	Universal Search	Search through files, metadata, and more on your NAS. Integration with Windows Search and macOS Spotlight makes it easy to find files
7	Migration Assistant	Migrates data, system setting, and applications seamlessly from one NAS to another to ensure maximum service availability
Data protection & Backup Solution		

1	Backup tools	<ul style="list-style-type: none"> • DSM configuration backup, macOS® Time Machine® support, Drive Client desktop application • Shared folder sync supports a maximum of 32 tasks
2	Snapshot Replication	<ul style="list-style-type: none"> • Max. number of snapshots for shared folders: 1,024 • Max. number of replications: 64
3	High Availability	Reduces service downtime by combining two identical NAS into a high-availability cluster
4	Active Backup for Business	An all-in-one backup solution designed for heterogeneous business IT environments. It enables IT admins to remotely manage and protect PCs, servers, NAS systems, and VMs from one centralized console
5	Active Backup for Google Workspace	Supports backup and restoration of Google Workspace My Drive, Team Drive, Gmail, Contacts, and Calendar
6	Active Backup for Microsoft 365	Supports backup and restoration of Microsoft 365 OneDrive for Business, Outlook, Contacts, and Calendar
Productivity & Collaboration		
1	Collaboration tools	<p>Collaborate with instant messaging service Chat, online documents editor Office, and scheduling assistant Calendar</p> <ul style="list-style-type: none"> • Max. number of concurrent users for Chat: 1,500 • Max. number of users for Office: 3,400 • Calendar supports CalDAV and access via mobile devices
2	Note Station	A note taking platform that supports rich text, note organization and versioning, encryption, sharing, media embedding, and attachments
Management & Administration		
1	VPN Server	<ul style="list-style-type: none"> • Maximum connections: 60 • Supported VPN protocols: PPTP, OpenVPN™, L2TP/IPSec
2	Antivirus Essential	Provides full system scans, scheduled scans, white list customization, and auto-update of virus definitions
3	Storage Analyzer	Displays volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, large files, most recently modified files, and least recently accessed files
4	Central Management System	Provides a single interface to manage and monitor multiple NAS

№	Бараа болон холбогдох үйлчилгээний нэр	Техникийн тодорхойлолт болон стандарт
Зөөврийн дата хамгаалах, хадгалах төхөөрөмж – 2 ширхэг		
1.	Model	Brand name DS923-PLUS Эсхүл түүнтэй дүйцэхүйц Европ Стандарт байх
2.	CPU Model	AMD Ryzen R1600
3.	CPU Architecture	64-bit
4.	CPU Frequency	2-core 2.6 (base) / 3.1 (turbo) GHz
5.	Hardware Encryption Engine	Yes (AES-NI)
6.	Hard Transcoding Engine	H.264 (AVC), H.265 (HEVC), MPEG-2 and VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 30
7.	System Memory	16 GB DDR4
8.	Drive Bay(s)	4
9.	Compatible Drive Type	3.5" SATA HDD 2.5" SATA SSD M.2 2280 NVMe SSD
10.	Capacity	32 TB (8 TB HDD x 4) (Capacity may vary by RAID types)
11.	Hot Swappable Drives	Yes
12.	USB 3.2 Gen 1 Port	2
13.	eSATA Port	1
14.	RJ-45 1GbE LAN Port	2 (with Link Aggregation / Failover support)
15.	Internal Drives	<ul style="list-style-type: none"> • Btrfs • EXT4
16.	External Drives	<ul style="list-style-type: none"> • Btrfs • EXT4 • EXT3 • FAT • NTFS • HFS+ • exFAT
17.	System Fan	92 mm x 92 mm x 2 pcs
18.	Fan Speed Mode	Full-Speed Mode Cool Mode Quiet Mode
19.	Wireless Support (dongle)	Yes

20.	Brightness adjustable front LED indicators	Yes
21.	Noise Level	19.4 dB(A)
22.	Power Recovery	Yes
23.	Scheduled Power On/Off	Yes
24.	Power Supply Unit / Adapter	100W
25.	AC Input Power Voltage	100V to 240V AC
26.	Power Frequency	50/60 HZ, Single Phase
27.	Power Consumption	35.51 W (Access) 11.52 W (HDD Hibernation)
28.	Operating Temperature	0°C to 40°C (32°F to 104°F)
29.	Storage Temperature	-20°C to 60°C (-5°F to 140°F)
30.	Relative Humidity	5% to 95% RH
31.	Certification	<ul style="list-style-type: none"> • FCC • CE • BSMI • VCCI • RCM • UKCA • EAC • CCC • KC
32.	License	<ul style="list-style-type: none"> • Camer device lisenсe (x8)

Хянасан:

Мэдээллийн технологийн хэлтсийн

менежер Г.Батдэлгэр

Боловсруулсан:

Техник хангамжийн инженер

Ц.Чинбаяр