



## ANEXO II

### ESPECIFICAÇÕES TÉCNICAS DA SOLUÇÃO DE ARMAZENAMENTO E BACKUP DE REDE (NAS – Network Attached Storage)

UNIDADE DE ARMAZENAMENTO EXTERNO – Modelo de Referência - Synology DS720+

#### Hardware

CPU Intel Celeron J4125 4-core 2.0 GHz, burst up to 2.7 GHz; Hardware encryption engine Yes (AES-NI);

Memory 2 GB DDR4 onboard (expandable up to 6 GB); Compatible drive type:

- 2 x 3.5" or 2.5" SATA HDD/SSD (drives not included)
- 2 x M.2 2280 NVMe SSD (drives not included) Hot swappable drive Yes;

External port:

- 2 x USB 3.0 port
- 1 x eSATA port

Size (HxWxD) 166 x 106 x 223 mm;

Weight 1.51 kg;

LAN 2 x Gigabit (RJ-45); Wake on

LAN/WAN Yes; Scheduled power on/off

Yes; System fan 92 x 92 x 25 mm;

AC input power voltage 100 V to 240 V AC; Power frequency

50/60Hz, single phase;

Operating temperature 0°C to 40°C (32°F to 104°F); Storage

temperature -20°C to 60°C (-5°F to 140°F); Relative humidity 5% to 95% RH;

Maximum operating altitude 5,000 m (16,400 ft);

#### Especificações Gerais do DSM

Networking protocol SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP);



File system:

- Internal: Btrfs, ext4
- External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT6

Supported RAID type Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1; Storage management:

- Maximum single volume size: 108TB
- Maximum system snapshots: 65,5367
- Maximum internal volume: 64 SSD cache:
- Read/write cache support
- M.2 NVMe SSD support File

sharing capability:

- Maximum local user account: 2,048
- Maximum local group: 256
- Maximum shared folder: 512
- Maximum concurrent SMB/NFS/AFP/FTP connection: 500 Privilege Windows

Access Control List (ACL), application privilege;

Directory service Windows® AD integration: Domain users login via SMB/NFS/AFP/FTP/File Station, LDAP integration;

Virtualization VMware vSphere® 6.5, Microsoft Hyper-V®, Citrix®, OpenStack®;

Security Firewall, shared folder encryption, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (customizable cipher suite);

Supported client Windows® 7 onwards, macOS® 10.12 onwards;

Supported browser Chrome®, Firefox®, Edge®, Internet Explorer® 10 onwards, Safari® 10 onwards, Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) on tablets;

Interface language English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu;

## **Pacotes e Aplicativos**

File Server & Synchronization;

Synology Drive Provide a universal portal to synchronize your files across various platforms, including Windows®, macOS®, Linux®, Android™ and iOS. The built-in universal portal allows you to access data anytime and anywhere:

- Maximum number of hosted files: 500,000
- Maximum number of concurrent connections for PC clients: 350

File Station Virtual drive, remote folder, Windows ACL editor, compressing/extracting archived files, bandwidth control for specific users or groups, creating sharing links, transfer logs;



FTP Server Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocol, boot over the network with TFTP and PXE support, transfer logs;

Presto File Server8 High-speed data transfer over WAN with exclusive SITA technology between Synology NAS and desktop;

Cloud Sync One or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, Amazon Drive, Amazon S3-compatible storage, Backblaze B2, Baidu Cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, Tencent COS, WebDAV servers, Yandex Disk;

Universal Search Offer global search into applications and files; iSCSI Storage &

Virtualization;

iSCSI Manager:

- Maximum iSCSI target: 128
- Maximum iSCSI LUN: 256
- iSCSI LUN clone/snapshot support

Virtual Machine Manager Deploy and run various virtual machines on Synology NAS, including Windows®, Linux®, or Virtual DSM;

Data Protection & Backup Solution;

Hyper Backup Support local backup, network backup, and backup data to public clouds;

Backup tools DSM configuration backup, macOS® Time Machine support, Synology Drive Client desktop application Shared folder sync - maximum task number: 8;

Snapshot Replication • Maximum of shared folder snapshots: 1,024:

- Maximum of Replication: 32

Synology High Availability Reduce service downtime by setting up two identical NAS into one high-availability cluster;

Active Backup for G Suite Support G Suite My Drive and Team Drive backup and restoration;

Active Backup for Office 365 Support Office 365 OneDrive for Business, mail, contacts, and calendar backup and restoration;

Active Backup for Business All-in-one backup solution designed for heterogeneous business IT environment, enabling IT admins to remotely manage and monitor protection over PC, servers and VM on one centralized console;

## **Produtividade e Colaboração**

Collaboration tools;

Collaborate with instant message service Synology Chat, online editor Synology Office, and scheduling assistant Synology;

Calendar:

- Chat maximum users: 1,500
- Office maximum users: 3,400



- Calendar: support CalDAV and access via mobile devices

Note Station Rich-text note organization and versioning, encryption, sharing, media embedding and attachments;

Synology MailPlus Server Secure, reliable, and private mail solution with high-availability, load balancing, security and filtering design (includes 5 free email account licenses; additional accounts require the purchasing of additional licenses);

Synology MailPlus Intuitive webmail interface for Synology MailPlus Server, customizable mail labels, filters, and user interface;

#### Multimedia Moments

Support smart AI album with facial and subject recognition, photo editing and sharing features, similar photo detection, autoediting functions such as color correction and angle adjustments, and AI selection of the best photos. Mobile applications are available on iOS and Android™ devices;

Other packages Video Station, Photo Station, Audio Station, iTunes® Server; Surveillance

Surveillance Station Maximum IP camera: 40 (total of 1,200 FPS at 720p, H.264) (including two free camera licenses; additional cameras require the purchasing of additional licenses);

#### All-in-One Server

Synology Directory Server Provide a flexible and cost-effective domain controller solution;

Central Management System Provide a single interface to manage and monitor multiple Synology NAS;

VPN Server Maximum connection: 30, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec;

Mail Server Supported Mail Server Protocols: POP3, SMTP, IMAP, Support LDAP/AD account;

Mail Station Webmail interface for Mail Server to receive emails from multiple POP3 mailboxes, customizable SMTP server;

Web Station Virtual host (up to 30 websites), PHP/MariaDB®, third-party applications support;

Other packages DNS Server, RADIUS Server, Log Center; Others

Storage Analyzer 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, least recently accessed files;

Antivirus Essential Full system scan, scheduled scan, white list customization, virus definition auto update;

iOS/Android™ applications Synology Drive, Synology MailPlus, Synology Chat, Synology LiveCam, Moments, DS audio, DS photo, DS video, DS cam, DS file, DS finder, DS note;

Other packages Additional 3rd-party packages available on Package Center;

#### Environment and Packaging;

Environment safety RoHS compliant; Package content:

- DS720+ main unit x 1
- Quick Installation Guide x 1
- Accessory pack x 1
- AC power adapter x 1
- AC power cord x 1 (Padrão NBR-14136)



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- RJ-45 LAN cable x 2

**Optional accessories9:**

- DDR4 non-ECC SO-DIMM 4 GB (D4NESO-2666-4G)
- Synology Expansion Unit DX517
- VisualStation VS360HD, VS960HD
- Surveillance Device License Pack
- MailPlus License Pack
- Virtual DSM License Pack

**Garantia 3 anos, o Fornecedor do Equipamento será corresponsável durante o período de vigência da Garantia.**