

TerraMaster F5-422 NAS/storage server Desktop Intel® Celeron® J3455 4 GB DDR3 0 TB Grey

Gamintojas: **TERRAMASTER** · Modelis: **F5-422** · EAN: **6939236140607** · Prekės kodas: **894967**



713,90 €

Kaina su PVM

Be PVM: **590,00 €**

Sandėlyje



Prekė internetu

Nuskenaukite kodą arba apsilankykite www.shopro.lt

Pagrindinės savybės

- ✓ Small & Medium Business NAS Desktop Grey
- ✓ Number of storage drives supported: 5 HDD & SSD Serial ATA
- ✓ Intel® Celeron® J3455 1.5 GHz Intel® HD Graphics 500
- ✓ 4 DDR3 Memory slots: 1
- ✓ Ethernet LAN 10000 iSCSI support
- ✓ Cooling type: Active
- ✓ Backup features: Cloud, USB drive 90 W



Aprašymas

10GbE 5-Bay Professional NAS

Powerful Configuration, Excellent Performance

With an Intel quad-core 1.5 GHz (turbo boost up to 2.3 GHz) processor, 4GB DDR3 memory, a 10Gb Ethernet port, two 1Gb Ethernet ports, and AES NI hardware encryption, TerraMaster's F5-422 is ideal for small and medium-sized commercial storage servers.

10Gb Ethernet Port

The F5-422's built-in 10Gb Ethernet port provides up to 10Gb of high-speed bandwidth. With 5 Seagate IronWolf 6TB hard drives in RAID 5 mode, the device's read and write speeds can reach 650MB/s and 670MB/s, respectively. Even without replacing the existing Cat6/6A cable's network architecture, users can benefit from these rapid and best-in-class speeds. The device was designed with professional users in mind, including 4K video editors and users with large data and strict speed requirements.

Multiple Layers of Data Security

The F5-422 device relies on the following six data security layers:

Automatic scheduled backup

Btrfs file system and snapshot

Multi RAID array security

AES hardware folder encryption and network transport encryption

Cloud drive data backup

File system Cluster

Enhance the Safety of your Data with a Next-Generation File System

Superior storage technology and optimised snapshot technology are the cornerstones of the Btrfs file system, which is what TerraMaster's F5-422 5-bay NAS unit relies on for advanced data protection, prevention of data corruption, and minimal maintenance expenses. Use of this file system promotes high data integrity, all the while promoting flexibility and efficiency in the areas of data protection and data recovery.

Optimised snapshot technology generates 512 snapshots for every shared folder, and up to 8,192 overall system snapshots. In this way, users can benefit from flexible, storage-saving data protection.

Since data recovery takes place at the file or folder level, businesses can also benefit from enhanced flexibility and efficient data recovery.

Faster and Safer

The device is equipped with two Gigabit network interfaces to support network aggregation and failover. If one network interface fails, the Internet connection can be maintained, helping to reduce the possibility of service interruption and the inconvenience of downtime operation. In addition, network aggregation can give full play to the advantages of the two network interfaces, which several times faster the connection speed and breaks the speed limit of a single network interface.

Large-Scale User Access

Support concurrent access for up to 500 users. You can also share storage space across multiple users, apply RBAC rights management and Windows ACL, and set access rights according to users, user groups, and folders.

SSD Cache

Using SSD acceleration technology, transmission efficiency can be enhanced with a read-write optimised combination of hard disk and SSD cache. Effective SSD acceleration technology dramatically reduces I/O latency and improves storage efficiency by more than 20%.

Multiple RAID Modes

Support a variety of disk array modes, including RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, JBOD, and SINGLE, to meet the needs of various users and levels of data security.

A Private Space in the Cloud

TNAS offers users the opportunity to establish a personal cloud drive that satisfies their remote access needs. Rights of access can be tailored for your colleagues, relatives, or friends, and with support for two-way sync cloud drive, enjoying the benefits of convenient cloud life has never been easier.

TNAS.online for Simple Remote Access

TNAS.online spares you from setting up DDNS, complicated network settings, and further port forwarding rules when trying to access files on TNAS through the Internet. At no additional expense, the service provides a secure, modifiable URL that you can use to engage with audio and video content, along with other work files, on your Internet-enabled device.

Striving to Satisfy Small Businesses

Small businesses benefit from the opportunity to conveniently build file storage servers, mail servers, web servers, FTP servers, MySQL databases, CRM systems, Node.js, and Java virtual machines, as well as a host of other commercial applications.

State-of-the-Art TOS 4.1.X Operating System

With the most recent version of the TOS operating system, TOS 4.1.X, you can back up your data, manage your file server, and optimise your sharing services in an intuitive, simple, and user-friendly way. The operating system includes a complex of application software, with rich application content, potent multimedia services, and numerous ways to back up your data.

Smart Mobile App

With the TNAS mobile app, quickly access your TNAS device and its multimedia data without restrictions, all simply through your iOS or Android system.

Techninė specifikacija

Storage	
Storage drives installed	No
Total installed storage capacity	0 TB
Number of storage drives installed	0
Number of storage drives supported	5
Installed storage drive type	No
Supported storage drive types	HDD & SSD
Storage drive capacity	0 GB
RAID support	Yes
Supported storage drive interfaces	Serial ATA
Storage drive sizes supported	2.5,3.5"
Maximum supported storage capacity	80 TB
RAID levels	0, 1, 5, 6, 10, JBOD
Online RAID migration	Yes
Hot-swap drive bays	Yes
Supported file systems	BTRFS, FAT32, HFS+, NTFS, ext3, ext4
Processor	
Processor family	Intel® Celeron®

Processor manufacturer	Intel
Processor model	J3455
Processor frequency	1.5 GHz
Processor boost frequency	2.3 GHz
Processor cores	4
Processor threads	4
Processor cache	2 MB
CPU configuration (max)	1
PCI Express configurations	1x2+2x1, 4x1
PCI Express slots version	2
Processor cache type	Smart Cache
Processor code	SR2Z9
Processor codename	Apollo Lake
Processor lithography	14 nm
Processor operating modes	64-bit
Processor package size	24 x 31 mm
Processor socket	BGA 1296
Stepping	B1
Tjunction	105 °C
Thermal Design Power (TDP)	10 W
On-board graphics card model	Intel® HD Graphics 500
Maximum internal memory supported by processor	8 GB
Conflict-Free processor	Yes
Memory	
Internal memory	4 GB
Internal memory type	DDR3
Maximum RAM supported	12 GB
Memory slots	1
Network	
Ethernet LAN	Yes
Ethernet LAN data rates	1000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 Mbit/s
iSCSI support	Yes
Supported network protocols	CIFS/SAMBA, NFS, FTP, TFTP, HTTPS, SSH, iSCSI, SNMP, SMTP
Link aggregation	Yes

Dynamic DNS (DDNS)	Yes
Ports & interfaces	
Ethernet LAN (RJ-45) ports	3
USB port	Yes
USB 2.0 ports quantity	0
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2
HDMI ports quantity	1
Graphics	
On-board graphics card base frequency	250 MHz
On-board graphics card burst frequency	750 MHz
On-board graphics card dynamic frequency (max)	750 MHz
Maximum on-board graphics card memory	8 GB
Number of displays supported (on-board graphics)	3
Design	
Chassis type	Desktop
Cooling type	Active
Product colour	Grey
Number of fans	2 fan(s)
Fan diameter	8 cm
Fan diameter 2	8 cm
LED indicators	HDD, LAN, Power
Built-in display	No
Performance	
Type	NAS
Device class	Small & Medium Business
Backup function	Yes
Backup features	Cloud, USB drive
Multilingual support	Yes
Number of users	2048 user(s)
Noise level	19.8 dB
Third-party support	Yes
Snapshot	Yes
Management protocols	SNMP
Web-based management	Yes

Security algorithms	AES, HTTPS, SNMP, SSH
Access Control List (ACL)	Yes
On/off switch	Yes
Browser supported	Google Chrome 48, Microsoft Internet Explorer 9, Mozilla Firefox 30,Apple Safari 4.5
System log	Yes
Hot spare	Yes
S.M.A.R.T. support	Yes
Share folder	512
Universal Plug and Play (UPnP)	Yes
Software	
Windows operating systems supported	Yes
Linux operating systems supported	Yes
Mac operating systems supported	Yes
Power	
Power supply location	External
Power supply unit (PSU) capacity	90 W
Number of power supply units	1
Power consumption (typical)	46.6 W
AC input voltage	100-240 V
AC input frequency	50 - 60 Hz
Output voltage	12 V
Weight & dimensions	
Width	225 mm
Depth	136 mm
Height	227 mm
Weight	2.3 kg
Package width	275 mm
Package depth	186 mm
Package height	300 mm
Package weight	3.56 kg
Packaging content	
External power adapter	Yes
Cables included	AC, LAN (RJ-45)
Processor special features	

Embedded options available	Yes
Enhanced Intel SpeedStep Technology	Yes
Execute Disable Bit	Yes
Idle States	Yes
Intel 64	Yes
Intel Clear Video Technology	Yes
Intel Enhanced Halt State	Yes
Intel Identity Protection Technology version	1
Intel Rapid Storage Technology	No
Intel Secure Boot	Yes
Intel Secure Boot Technology version	1
Intel Secure Key Technology version	1
Intel Small Business Advantage (SBA) version	0
Intel Smart Connect Technology	No
Intel Smart Connect Technology version	0
Intel Smart Response Technology version	0
Intel Stable Image Platform Program (SIPP)	No
Intel Stable Image Platform Program (SIPP) version	0
Intel Trusted Execution Technology	No
Intel Virtualization Technology (VT-x)	Yes
Intel Virtualization Technology for Directed I/O (VT-d)	Yes
Intel VT-x with Extended Page Tables (EPT)	Yes
Intel® AES New Instructions (Intel® AES-NI)	Yes
Intel® Anti-Theft Technology (Intel® AT)	No
Intel® Clear Video HD Technology (Intel® CVT HD)	Yes
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	Yes
Intel® High Definition Audio (Intel® HD Audio)	Yes
Intel® Hyper Threading Technology (Intel® HT Technology)	No
Intel® Identity Protection Technology (Intel® IPT)	Yes
Intel® Insider™	No
Intel® InTru™ 3D Technology	No
Intel® OS Guard	No
Intel® Quick Sync Video Technology	Yes
Intel® Secure Key	Yes

Intel® Small Business Advantage (Intel® SBA)	No
Intel® Smart Response Technology	No
Intel® Turbo Boost Technology	No
Intel® Wireless Display (Intel® WiDi)	No
Maximum number of PCI Express lanes	6
Number of execution units	12
Thermal Monitoring Technologies	Yes
UART	Yes
Memory types supported by processor	DDR3L, LPDDR3-SDRAM, LPDDR4-SDRAM
Operational conditions	
Operating temperature (T-T)	5 - 40 °C
Operating relative humidity (H-H)	5 - 95%
Storage temperature (T-T)	-20 - 60 °C
Other features	
Digital Living Network Alliance (DLNA) certified	Yes
Compliance certificates	RoHS
Certification	FCC, CE, CCC, KC
Processor ARK ID	95594
Matmenys ir svoris	
Svoris	2,30kg

Dokumentai ir vaizdo įrašai

› [Naudojimo instrukcija](#)

Gamintojo ir saugos informacija

GAMINTOJAS

TerraMaster

PLATINTOJAS

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