Synology®

Expansion Unit

FX2421

On-the-Fly Storage Capacity Expansion for Synology FlashStation

Synology FX2421 expansion units for Synology FlashStation[1] make it easy to upgrade your all-flash storage space with Synology enterprise SSD. Each 2U rackmount unit lets you add 24 additional 2.5” drive bays on the fly using an expansion cable. Synology FX2421 is the first 24 bay expansion unit to support Synology’s SAT5200 SATA SSD, allowing you to create a highly reliable and integrated storage setup, and receive long-term Synology updates and support. Synology FX2421 is backed by Synology’s 5-year limited warranty[2].

Highlights

- **Seamless Storage Expansion**
  24 additional drive bays available for online volume expansion on the fly for your Synology FlashStation[1]
- **Best Fit With Enterprise-Grade Synology SSD**
  Use with Synology SAT5200 SATA SSD for high performance, endurance, and verified compatibility
- **High-Reliability Design**
  Modularized components including redundant power supplies and system fans ensure maximum uptime
- **Easy Hardware Setup**
  Plug-and-play design and fast rack fixing lock support make upgrading storage space easy
- **Extended After-Sales Support**
  Backed by Synology’s 5-year limited warranty[2]

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High-Density Unit for Easy Expansion and Backup

It is easy to expand your Synology FlashStation[1] with Expansion Unit FX2421 for **24 additional 2.5" drive bays** whenever needed. Without additional software configuration, FX2421 is immediately ready for use when connected to any Synology FlashStation. FX2421 expansion units can also be used as a dedicated and rapidly accessible local backup destination.

Optimal Stability

Synology FX2421 is thoroughly tested with Synology SAT5200 SATA SSD for enterprise-grade performance, endurance, and compatibility.

Expand FlashStation with Synology SAT5200 SSD

Synology SAT5200 SATA SSD, developed in tandem with FX2421, provides proven interoperability and high reliability through rigorous validation and compatibility testing with Synology Expansion Units. Synology's SAT5200 solid state drive delivers up to **67,000 4K random write IOPS** and **enterprise-grade endurance at 1.3 DWPD**. Combine SAT5200 drives with Synology FlashStation and FX2421 for a highly reliable and integrated storage setup, and receive long-term Synology updates and support.

High-Performance Data Transmission

The high-speed expansion cable provided with FX2421 enables high bandwidth connectivity for maximum data throughput between your Synology FlashStation and Expansion Unit. Drives in FX2421 operate with minimum data latency, as if installed directly on your Synology FlashStation, allowing you to take advantage of high SSD I/O performance.

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High-Reliability Design, Easy Hardware Setup

The FX2421 is a highly reliable and thoroughly tested expansion unit that comes with hot-swappable drive trays and modularized components. Redundant power supplies and system fans can be replaced with ease to ensure maximum service uptime. The optional RKS1317 sliding rail kit provides fast rack fixing lock support for quick and secure rack cabinet installation.

Backed by Synology's 5-Year Limited Warranty

Synology FX2421 is designed to keep your data durably safe and is backed by Synology's 5-year limited warranty[2], which includes hardware replacement and technical support for maximum return on investment.

Synology's 5-year limited warranty

Synology's 5-year limited warranty[2] includes technical support services to keep your business running.

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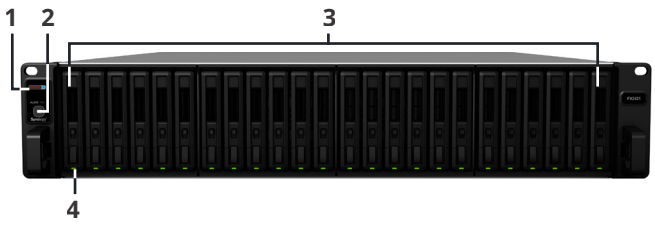
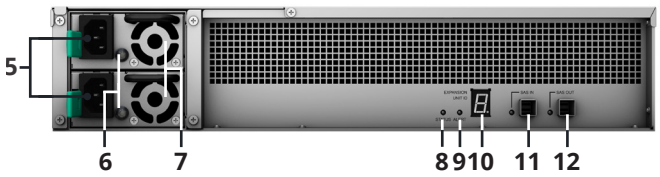
Hardware Overview

Front



Rear



1	Power indicator	2	Beep off button	3	Drive tray	4	Drive status indicator
5	Power port	6	PSU indicator and beep off button	7	PSU fan	8	Status indicator
9	Alert indicator	10	Expansion unit ID indicator	11	SAS IN port and indicator	12	SAS OUT port and indicator

Technical Specifications

Hardware

Compatible drive type	24 x 2.5" SAS SSD/HDD or SATA SSD (drives not included)
Hot swappable drive	Yes
External port	• 1 x SAS IN • 1 x SAS OUT
Size (HxWxD)	• 88 x 430.5 x 692 mm • 88 x 482 x 724 mm (with server ears)
Weight	14.5 kg
System fan	4 (80 x 80 x 32 mm)
AC input power voltage	100 V to 240 V AC
Power frequency	50/60Hz, single phase
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
Maximum operating altitude	5,000 m (16,400 ft)

Environment and Packaging

Environment safety	RoHS compliant
Package content	• FX2421 main unit x 1 • Quick Installation Guide x 1 • Accessory pack x 1 • AC power cord x 2 • Expansion cable x 1
Optional accessories	• 2.5" SATA SSD: SAT5200 • Rail Kit Sliding: RKS1317
Warranty	5 years

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. Please update your FlashStation to DSM 6.2.3-25426-2 or later versions for Synology Expansion Unit FX2421 support.
2. The warranty period starts from the purchase date as stated on your receipt of purchase . Visit https://www.synology.com/company/legal/warranty for more information.

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