

# Synergy Storage Pro

## Enterprise-class storage for your critical video surveillance data.

Delivers high data throughput and exceptional storage density in a 2U rack-mounted form factor. Enterprise-class components protect your critical video surveillance data and reduce system downtime. Validated and tested performance under high demand gives peace of mind for long-term reliability.



## Why Choose Synergy Storage Pro?

### Designed for Video

The surveillance optimised hardware and operating system ensure consistent performance out of the box, even under high demand.

### Resiliency

Enterprise-grade with RAID protection features for OS and data storage, and dual power supplies as standard to enhance system uptime.

### Health Monitoring

Automatic alerts of any hardware events that require action, ensuring optimal system resilience and uptime is maintained.

### Simplified Installation

Synergy software is automatically installed (license sold separately) via an intuitive device configuration process.

### Storage Capacity

Up to 216TB redundant storage for evidential video storage, using a 12-bay 2U chassis.

### Minimised Footprint

2U form factor and high storage density reduces the quantity of PSNs required, as well as the total cost of ownership (energy and cooling costs).

## Key Features

- Up to 700Mbps of inbound data throughput
- Up to 216TB of RAID 6 protected storage using up to 12x 24TB enterprise HDDs
- Dual 480GB OS SSDs with RAID 1 protection
- Dual 10Gbps Ethernet, with optional fibre connectivity
- Up to 200 video channels
- Dual hot swappable 80 Plus Platinum power supplies
- Optimised Windows Server 2025 operating system

# Specifications

GENERAL	
Dimensions (W x H x D)	2U rack-mountable server 437 mm x 89 mm x 650 mm (17.2" x 3.5" x 25.6")
Weight	Maximum 26.3 kg
Operating Temperature	10°C to 35°C (50°F to 95°F)
Operating Humidity	8% to 80% (non-condensing)
Certifications and Approvals	CE, UKCA, FCC
Security	Lockable bezel for front HDDs
Operating System	Windows Server IoT for Storage 2025
Supported Rack Mount Types	Square hole, round hole, and threaded hole Minimum rack depth 25.6" (650mm)
CPU	AMD Epyc 8-core
RAM	32GB (2x 16GB DDR5)
Host OS Storage	2x 480GB M.2 SSDs with RAID 1 resilience
Video Storage	Up to 216TB of RAID 6 protected usable storage (max 12x HDDs)
Minimum Synergy Version	23.1.100
POWER	
Hot Swap PSUs	2x redundant 800W modules (115V/230V)
PSU Efficiency	80 Plus Titanium
Typical Power Consumption (Based on Maximum Configuration)	230W (785 BTUs)
CONNECTIVITY	
Networking (Standard)	2x 10Gbps RJ45 (onboard)
Networking (Optional Alternatives)	Dual SFP+ or additional 2x 10Gbps RJ45 via PCIe adapter
Out-Of-Band (OOB) Networking (Dedicated Management and Health Toolset)	1x RJ45
USB	4x USB 3.0 Type-A
Video	1 x VGA
Other	1x Serial (unused)
PRODUCT FUNCTIONALITY	
Supported Deployment Modes	Synergy PSN, Synergy Incident Locker, Synergy Compact
Maximum Inbound Data Throughput (Synergy PSN)	700Mbps
Maximum Inbound Data Throughput (Synergy Compact)	200Mbps
Maximum Outbound Data Throughput (Synergy PSN)	384Mbps (up to 128 concurrent video sessions)
Maximum Outbound Data Throughput (Synergy Compact)	200Mbps (up to 32 concurrent video streams)
Maximum Recorded Video Channels (Synergy PSN)	200
Maximum Recorded Video Channels (Synergy Compact)	32
System Health Monitoring	Yes, with Synergy alerts for hardware health events
Out-Of-Band Management with IP-KVM	Yes
SNMP Alarm Support	Yes
Synectics Metadata Recording Support*	Yes
Synectics Backfiller Support*	Yes
Multicast Video Support	Yes
H.264 and H.265 Video Support	Yes

\*Configuration may impact maximum inbound/outbound data throughput and maximum recorded video channels.

**PART CODES**

STO-1051-21TB-R6	Synergy Storage Pro V5.1 (8x 4TB RAID 6)
STO-1051-36TB-R6	Synergy Storage Pro V5.1 (12x 4TB RAID 6)
STO-1051-72TB-R6	Synergy Storage Pro V5.1 (12x 8TB RAID 6)
STO-1051-108TB-R6	Synergy Storage Pro V5.1 (12x 12TB RAID 6)
STO-1051-144TB-R6	Synergy Storage Pro V5.1 (12x 16TB RAID 6)
STO-1051-180TB-R6	Synergy Storage Pro V5.1 (12x 20TB RAID 6)
STO-1051-216TB-R6	Synergy Storage Pro V5.1 (12x 24TB RAID 6)

**SPARE PART CODES**

SY-NIC-10G-DUALSFP-AOCSTGNI2S	Dual 10Gbps SFP+ Network Adapter
SY-NIC-10G-DUALETH-S1	Dual 10Gbps RJ45 Network Adapter
SY-CRU-M2SSD-S1	480GB M.2 OS SSD
SY-CRU-PSU-S2	800W PSU Module
SY-CRU-RACK-S1	Rack Mount Kit
SY-CRU-RAID-S1	RAID Controller for HDDs
SY-CRU-RAM-S2	16GB DDR5 RAM Module
SY-CRU-BEZEL-S2	Front Bezel for HDDs
SY-HDD-SAS-4TB	4TB Enterprise SAS HDD
SY-HDD-SAS-8TB	8TB Enterprise SAS HDD
SY-HDD-SAS-12TB	12TB Enterprise SAS HDD
SY-HDD-SAS-16TB	16TB Enterprise SAS HDD
SY-HDD-SAS-20TB	20TB Enterprise SAS HDD
SY-HDD-SAS-24TB	24TB Enterprise SAS HDD