

SYNECTICS

Synergy Incident Locker Ultra

Outstanding storage density and resilience for your long-term video surveillance data.

With up to 775TB of RAID protected storage, Synergy Incident Locker Ultra is ideally suited for hyperscale systems with exceptional video storage needs. The outstanding storage density minimises the hardware footprint and running costs, and the enterprise-grade hardware platform features redundant components to enhance your system uptime.



Why Choose the Synergy Incident Locker Ultra?

Designed for Video

Extensive hardware testing and OS optimisation ensures consistent performance out of the box, even under high demand.

Resiliency

The enterprise-grade hardware features virtualisation, multiple RAID volumes, and redundant components to enhance the resilience of your storage system.

Health Monitoring

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

Simplified Installation

Advanced configuration of virtualisation, RAID volumes, and Synergy software is automatically managed by the hardware, reducing the installation time.

Storage Capacity

60x 16TB HDDs allow up to 775TB of RAID-protected storage data per server, offering up to 7.75PB of storage in a typical server rack.

Minimised Footprint

High storage density reduces the physical hardware footprint for hyperscale systems, as well as energy and cooling costs for the storage system.

Key Features

- Up to 775TB of RAID storage in three RAID 6 volumes
- 60x 14TB or 16TB enterprise HDDs
- 80 Plus Platinum rated PSUs for high power efficiency
- Three RAID controllers, three network adapters, two redundant OS SSDs, and two redundant PSUs for additional hardware resiliency
- Optimised Windows Server 2022 operating system, featuring advanced virtualisation for additional resiliency

Specifications

GENERAL	
Dimensions ^{*1} (W x H x D)	4U rack-mountable server 435 mm x 175.7 mm x 953 mm (17.1" x 6.9" x 37.5") Depth inclusive of rack rails: 1013mm (39.9")
Gross Weight (Excluding HDDs and rack rails)	47kg (103.6 lbs)
Approximate weight (Including HDDs and rack rails)	100kg (~220 lbs)
Operating Temperature	0°C (32°F) - 35°C (95°F) Recommended: 18°C (64°F) - 22°C (72°F)
Operating Humidity	5% - 95% non-condensing
Certifications and Approvals ^{*2}	CE, FCC
Operating System	Windows Server 2022 (3x VMs included)
CPU	2x Intel Xeon Silver 8-core
RAM	256GB (8x 32GB modules)
Host OS Storage	480GB SATA SSD – RAID 1 hot swappable
Video Storage	60x top-mounted HDD bays Up to 775TB storage – 3x 258TB RAID 6 volumes
POWER	
Hot Swap PSUs	2x 1600W PSU modules
PSU Efficiency	80 Plus Platinum
Typical Power Consumption (Based on Maximum Configuration)	1000w (3412 BTUs per hour)
CONNECTIVITY	
Networking ^{*3} (Standard)	Video networking team^{*3} 2x 10Gbps SFP+ (onboard) 2x 10Gbps SFP+ (network adapter) Management/configuration network 2x 1Gbps RJ45 (network adapter)
Out-Of-Band (OOB) Networking (Dedicated Management and Health Toolset)	1x RJ45
USB	Front: 2x USB 3.0 Type-A Rear: 2x USB 3.0 Type-A
Serial	Unused
Video	1 x VGA
PRODUCT FUNCTIONALITY	
System Health Monitoring	Yes
Out-Of-Band Management with IP-KVM	Yes
SNMP Alarm Support	Yes
H.264 and H.265 Video Support	Yes
Performance Optimised 4K Sector Size for HDDs	Yes
Tool-less HDD Replacement	Yes
Tool-less Hardware Servicing	Yes

^{*1} 1.5m (59") rack depth recommended ^{*2} Certifications pending ^{*3} VLANs must be configured in line with the product documentation. Minimum 2x SFP+ links recommended for redundancy configuration may impact maximum inbound/outbound data throughput and maximum recorded video channels.

PART CODES

SY-LOCKERULTRA-V1-678TB-R6x3	Synergy Locker ULTRA V1 - 4U – 678TB (3x 225TB RAID 6) 14TB HDD
SY-LOCKERULTRA-V1-775TB-R6x3	Synergy Locker ULTRA V1 - 4U – 775TB (3x 258TB RAID 6) 16TB HDD

SPARE PART CODES

SY-HDD-SAS-4KN-14TB	14TB Enterprise HDD – SAS 4Kn
SY-HDD-SAS-4KN-16TB	16TB Enterprise HDD – SAS 4Kn
85-1180-0000	Intel E10GSFPSRX SFP+ SR Module (Extended Temp)
85-1180-0001	Intel E10GSFPSR SFP+ SR Module
85-1180-0002	Intel E10GSFPLR SFP+ LR Module