SYNECTICS

Synergy Compact

Recording and management of video and alarms in a secure and robust hardware platform

Suitable for local deployment and as part of a distributed system connected to an over-arching command and control centre, this flexible device is ideal for vessels, offshore platforms, remote site facilities, and other large-scale federated site applications requiring multi-site management from a central location.

Why Choose the Synergy Compact?

Optimised for Video

Extensive hardware testing and OS optimisation ensures consistent performance is delivered out of the box.

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.

Synergy Server Built In

Configuration can be managed directly via the Synergy Compact, and video management and review is offered via the Synergy client range.

Scalable

Multiple Synergy Compact units can be combined into a single Synergy control system, allowing your system to grow as requirements change.

Reduced Footprint

Up to 36TB of storage in a 2U rackmounted chassis .

Key Features

- Up to 32 video channels and up to 200Mbps of inbound throughput
- Storage options ranging from 21TB-36TB
- Enterprise class RAID redundancy for video data and the OS

- Detailed incident and evidence management system including SHA-2 watermarking to ensure the integrity of evidence
- Supports H.264 and H.265 video, SD/HD/4K video ONVIF-compliant devices

Specifications

GENERAL

Dimensions (W x H x D)	2U rack mountable server 437 mm x 89 mm x 648 mm (11.4" x 3.5" x 25.5")
Weight	Maximum 27.2 kg
Operating Temperature	10-35°C (50°F ~ 95°F)
Operating Humidity	8% to 90% (non-condensing)
Certifications and Approvals	CE, FCC, UKCA
Security	Lockable front bezel included
Operating System	Windows Server IoT 2022 for Storage
CPU	AMD Epyc 8 Core CPU
RAM	32GB ECC (error-correcting code) RAM
Host OS Storage	2x 480GB M.2 SSDs with RAID 1 protection
Video Storage	Up to 36TB of RAID protected usable storage (max 12x 4TB HDDs)

POWER

Hot Swap PSUs	2x redundant 920W PSU modules
PSU Efficiency	80 Plus Platinum
Typical Power Consumption (Based on Maximum Configuration)	230W (785 BTUs)

CONNECTIVITY

Networking (Standard)	2x 1Gbps RJ45 (unused) 2x 10Gbps RJ45 (10G-BASE-T) via included network adapter
Networking (Optional Alternatives)	2x 10Gbps SFP+ 4x 10Gbps RJ45 4x 1Gbps RJ45
Out-Of-Band (OOB) Networking (Dedicated Management and Health Toolset)	1x RJ45
USB	4x USB 3.0 Type-A
Serial	1x RS232 port (unused)
Video	1 x VGA

PRODUCT FUNCTIONALITY

Maximum Inbound Data Throughput	200Mbps
Maximum Outbound Data Throughput	200Mbps
Maximum Recorded Video Channels	32
Maximum Synergy Compacts per Site Location	4
Maximum Synergy Compacts connected to Synergy control room	No limit
Video Export	Via External DVD or USB device, or separate Synergy Incident Locker
System Health Monitoring	Configured as standard with Synergy alerts
Out-Of-Band Management with IP-KVM	Yes
SNMP Alarm Support	Yes
Multicast Video Support	Yes
H.264 and H.265 Video Support	Yes
Performance Optimised 4K Sector Size for HDDs	Yes
Tool-less HDD Replacement	Yes

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

PART CODES

SY-COMPACT-V5-21TB-R6	Synergy Compact V5 2U - 21TB RAID 6 (8x 4TB HDDs)
SY-COMPACT-V5-36TB-R6	Synergy Compact V5 2U - 36TB RAID 6 (12x 4TB HDDs)

SPARE PART CODES

SY-CRU-M2SSD-S1	480GB M.2 OS SSD for Synergy PSN/Locker/Compact V5
SY-CRU-BEZEL-S1	Front Bezel for Synergy PSN/Locker/Compact V5
SY-CRU-RAID-S1	RAID Controller for Synergy PSN/Locker/Compact V5
SY-CRU-RACK-S1	Rack Mount Kit for Synergy PSN/Locker/Compact V5
SY-CRU-FAN-S1	Hotswap Internal Fan for Synergy PSN/Locker/Compact V5
SY-CRU-PSU-S1	920W PSU Module for Synergy PSN/Locker/Compact V5
SY-HDD-SAS-4KN-4TB	4TB Enterprise SAS HDD (4K Sector Size)

Specifications subject to change. E & OE.

Literature Reference: COMPACT-V5/0723 Iss 1

SYNECTICS

www.synecticsglobal.com