SYNECTICS

Synergy Edge

Video storage and playback for edge locations

Synergy Edge combines video recording, playback, and local site resiliency into a single, small form factor chassis. The hardware can be installed without the need for a server, for easy installation in professional environments. Synergy Edge seamlessly integrates into a centralised Synergy system, with a common user interface and setup process to reduce training requirements.

Why Choose the Synergy Edge?

Optimised for Video

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

Synergy Built In

Standardised Synergy software provides operators and engineers with a familiar user experience without additional training requirements.

Local Review

With a Synergy client built in, the hardware can be used to access Synergy and review video without requirement for an additional dedicated Synergy client device.

Storage Capacity

Up to 27TB of RAID protected storage for your critical video data.

Flexibility

Can be deployed with a local resilient server, connected to a central Synergy system directly, or simply record video – to fit your system and network architecture.

Small Form Factor

The compact cube form factor does not require a rack or dedicated comms room, and benefits from a lockable front cover for video data HDDs.

Key Features

- Compact, cube form factor
- Up to 32 video channels and up to 200Mbps of inbound throughput
- Up to 27TB of RAID 5 protected storage, utilising 4x 10TB HDDs
- Up to 9TB of RAID 1 protected storage, utilising 2x 10TB HDDs

- Optimised Windows 10 IoT Enterprise LTSC 2021 OS, with Synectics software built in for easy deployment
- 480GB OS SSD
- Dual 2.5Gbps Ethernet
- Supports all camera and encoder devices that are supported by Synergy, including ONVIF devices with H.264 and H.265 video, SD/HD/4K video

Specifications

GENERAL	
Dimensions (W x H x D)	75 x 210 x 230 mm (10.8" x 8.3" x 9.1")
Weight	8.7kg (20 lbs) excluding packaging
Operating Temperature (Normal)	10-25ºC (50ºF-77ºF)
Operating Temperature (Maximum Fan Speed)	10-35ºC (50ºF-95ºF)
Operating Humidity	10% to 90% non-condensing
Certifications and Approvals	CE
Security	Lockable front cover for HDDs, padlock loop for case lid
Operating System	Windows 10 IoT Enterprise LTSC 2021
CPU	12th Generation Intel Core i3
RAM	32GB DDR4 Dual Channel
Host OS Storage	240GB M.2 NVMe SSD
Video Storage	Up to 27TB of RAID 5 protected storage (4x 10TB HDDs) Up to 9TB of RAID 1 protected storage (2x 10TB HDDs)

POWER	
PSU	265W PSU
PSU Efficiency	80 Plus Bronze
Typical Power Consumption (Based on Maximum Configuration)	90W

CONNECTIVITY	
Networking (Standard)	2x 2.5Gbps Ethernet RJ45
USB	2x USB 3.0 Type-A (front) 4x USB 3.2 Gen 2 Type-A (rear)
Serial	2x RS232
Video	2x DisplayPort 1.4a 1x HDMI 2.0b (max 1 monitor connection)
Audio	1x Line-out 3.5mm 1x Mic-in 3.5mm

PRODUCT FUNCTIONALITY	
Inbound Data Throughput	200Mbps
Outbound Data Throughput	200Mbps
System Health Monitoring	RAID health alerts
Multicast Video Support	Yes
H.264 and H.265 Video Support	Yes
Local Synergy Server	Yes (optional)
Local Synergy Client	Yes (optional)
Local Synergy PSN	Yes

MONITOR CONFIGURATION	Max SD Video Windows	Max HD Video Windows	Max 4K Video Windows
1x HD (1920x1080)	16	4	1
1x 4K (3840x2160)	16	4	1

PART CODES	
SY-EDGE-V1-5.4TB-R1	Synergy Edge V1 5.4TB RAID 1 (with Synergy Edge license)
SY-EDGE-V1-9TB-R1	Synergy Edge V1 9TB RAID 1 (with Synergy Edge license)
SY-EDGE-V1-16.2TB-R5	Synergy Edge V1 16.2TB RAID 5 (with Synergy Edge license)
SY-EDGE-V1-27TB-R5	Synergy Edge V1 27TB RAID 5 (with Synergy Edge license)
SY-SERVER-FRU-6TB	6TB Enterprise SATA HDD (512 Sector Size)
SY-SERVER-FRU-10TB	10TB Enterprise SATA HDD (512 Sector Size)

SYNECTICS

www.synecticsglobal.com