

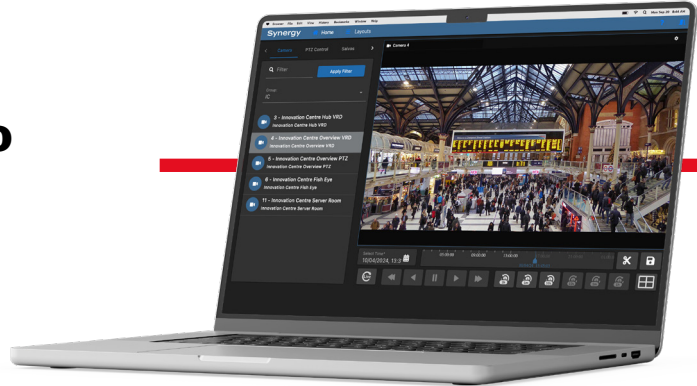
SYNECTICS

Synergy

Synergy web server

Anytime, Anywhere Access to the Control Room

Effortlessly manage incidents, view live and recorded video, and access system reports and dashboards in a web browser, all secured by robust cybersecurity protection, without the need for dedicated client hardware.



Remote Access to Your Surveillance Video

Optimised for Video

Multiple users can view up to 24 simultaneous live and recorded video streams from Synergy PSNs. Display up to 4 video windows per browser session using low-latency WebRTC video or MJPEG. Preserve bandwidth with video quality settings.

Direct Control

Stay on top of the situation with direct control of cameras, including PTZ, focus, presets and salvos.

Cybersecure

Video data is streamed on request and is not saved to the local device. The video can only be accessed by strict authentication and authorisation. All communications are encrypted.

Great User Experience

Provides users with a familiar Synergy experience without additional training requirements, whether on a desktop, laptop or tablet.

No Plug-Ins

Works natively in modern web browsers without the need for locally installed software and plug-ins.

Information At-A-Glance

Dynamic dashboards display real-time data for informed decision-making and the event feed gives you more situational awareness. Generate the reports you need when you need them.

Key Features

- Access to live and recorded video footage from Synergy PSNs
- Control of cameras, including presets and salvos
- Up to 4 video windows per browser session
- Inputs: encoders, SD, HD IP, MP and 4K cameras
- Configurable stream outputs to preserve bandwidth
- Clip video to create incidents
- Synergy client workstation is not required
- Strict permission configuration for web-only access
- Dynamic dashboards and reports
- Incident and event feed for viewing real-time incidents, system state and customisable daily logs
- Video statistics measure daily stream utilisation

Server Specifications

The stated performance of Synergy web is based on using a dedicated Synergy web server with the following specification.*¹

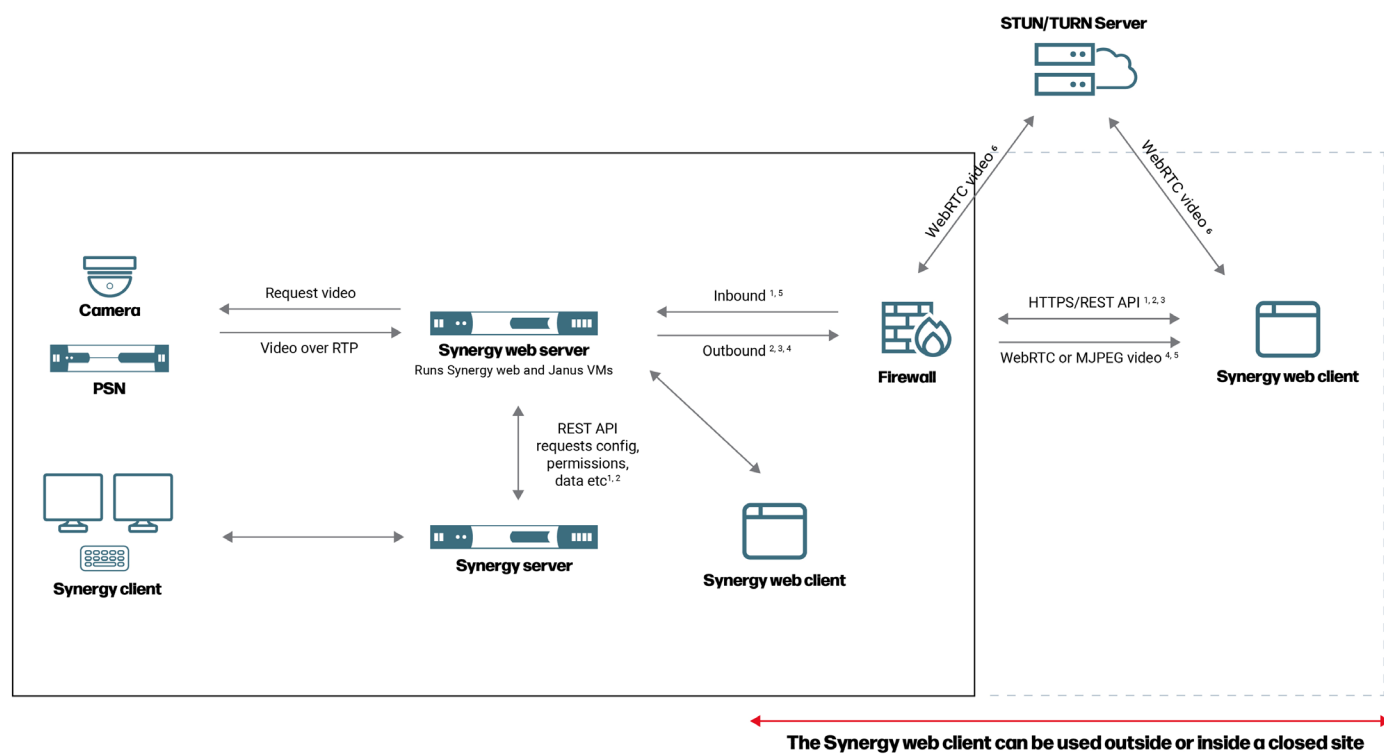
GENERAL		SYNERGY SERVER MAX
Dimensions (W x H x D)		1U rack-mountable server 440 mm x 43 mm x 773 mm (17.3" x 1.7" x 30.4")
Weight		Maximum 20.2 kg
Operating Temperature		ASHRAE A2 (10-35°C if altitude is 900m or below)
Operating Humidity		ASHRAE A2: 8% to 80%; maximum dew point: 21°C (70°F)
Certifications and Approvals		CE, FCC, UKCA, NOM, KC, cTUVus, EAC, GS
Security		Lockable front bezel included
Operating System		Windows Server IoT 2022
CPU		AMD Epyc 16 Core CPU
RAM		64GB ECC (error-correcting code) RAM
Host OS Storage		2x 480GB M.2 SSDs with RAID 1 resilience
VM and Data Storage		Up to 3.6TB of RAID 1 storage (2x 4TB enterprise HDDs)
POWER		SYNERGY SERVER MAX
Hot Swap PSUs		2x redundant 1100W PSU modules
PSU Efficiency		80 Plus Platinum
Typical Power Consumption (Based on Maximum Configuration)		180w (614 BTUs per hour)
CONNECTIVITY		SYNERGY SERVER MAX
Networking (Standard)		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		Front: 1x USB 3.1 G1 Type-A, 1x USB 2.0 Type-A Rear: 3x USB 3.1 G1 Type-A
Video		Rear: VGA
Other		Front: Diagnostics Port
PRODUCT FUNCTIONALITY		SYNERGY SERVER MAX
System Health Monitoring		Configured as standard with Synergy alerts
Out-Of-Band Management with IP-KVM		Yes
SNMP Alarm Support		Yes
Performance Optimised 4K Sector Size for HDDs		Yes
Tool-less HDD Replacement		Yes
Tool-less Hardware Servicing		Yes

*¹Synergy Server Max can be used as a dedicated web server or compartmentalised depending on the size of your estate and your requirements. For further information about the Synergy Server Max visit the Synectics website.

PART CODES	
SY-SERVERMAX-V1-3.6TB-R1	Synergy Server Max V1 1U – 3.6TB RAID 1
SY-SSW-SYNERGY-WEB	Synergy software for web client and mobile app, annual subscription (includes 5 user licenses)
SY-SSW-SYNERGY-WEB-USER	Synergy web user license (Annual Subscription)

SPARE PART CODES	
SY-CRU-PSU-L1	1100W PSU Module for Synergy Server Max V1 and PSN/Locker Max V1
SY-CRU-M2SSD-L1	480GB M.2 OS SSD for Synergy Server Max V1 and PSN/Locker Max V1
SY-CRU-RAID1U-L1	RAID Controller for Synergy Server Max V1
SY-CRU-RACK-L1	Rack Mount Kit for Synergy Server Max V1 and PSN/Locker Max V1
SY-CRU-FAN-L1	Internal Fan for Synergy Server Max V1
SY-HDD-SAS-4KN-4TB-L	4TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-8TB-L	8TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-12TB-L	12TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-16TB-L	16TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-20TB-L	20TB Enterprise SAS HDD for Max Hardware (4K Sector Size)

Architecture and Port Utilisation



#	DESCRIPTION	PORT (*CONFIGURABLE)
1	Inbound HTTP/HTTPS traffic from Synergy web client	80/443*
2	Outbound Synergy Server REST API	8099*
3	Outbound Synergy Server Generic Request service	9876*
4	Outbound Janus TCP	8088
5	Inbound Janus RTSP	554
6	WebRTC video via STUN/TURN (negotiated port)	19302

A DNS registered domain name is highly recommended if using the Synergy web client over the internet.*2

An SSL certificate for HTTPS should be registered to the domain name used for Synergy web client access.

Browser compatibility for Edge, Chrome, Firefox and Safari.

*2 Within a closed site, access is permissible via a browser using a local IP address.