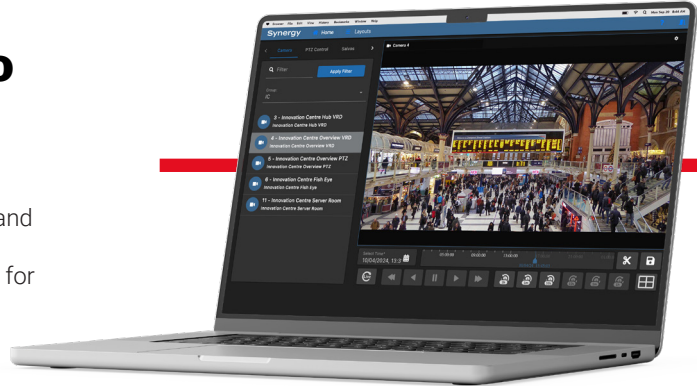# SYNECTICS

Synergy

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. Display up to 4 video windows per browser session using low-latency WebRTC video or MJPEG. Preserve bandwidth with video quality settings.

Great User Experience

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

Direct Control

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

No Plug-Ins

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

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.

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
- 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 (4x 4TB enterprise HDDs) Up to 54TB of RAID 5 protected storage (4x 20TB 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

[1] Synergy 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-SERVERMAX-V1-10.8TB-R5	Synergy Server Max V1 1U – 10.8TB RAID 1
SY-SERVERMAX-V1-21TB-R5	Synergy Server Max V1 1U – 21TB RAID 1
SY-SERVERMAX-V1-32TB-R5	Synergy Server Max V1 1U – 32TB RAID 1
SY-SERVERMAX-V1-43TB-R5	Synergy Server Max V1 1U – 43TB RAID 1
SY-SERVERMAX-V1-54TB-R5	Synergy Server Max V1 1U – 54TB 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

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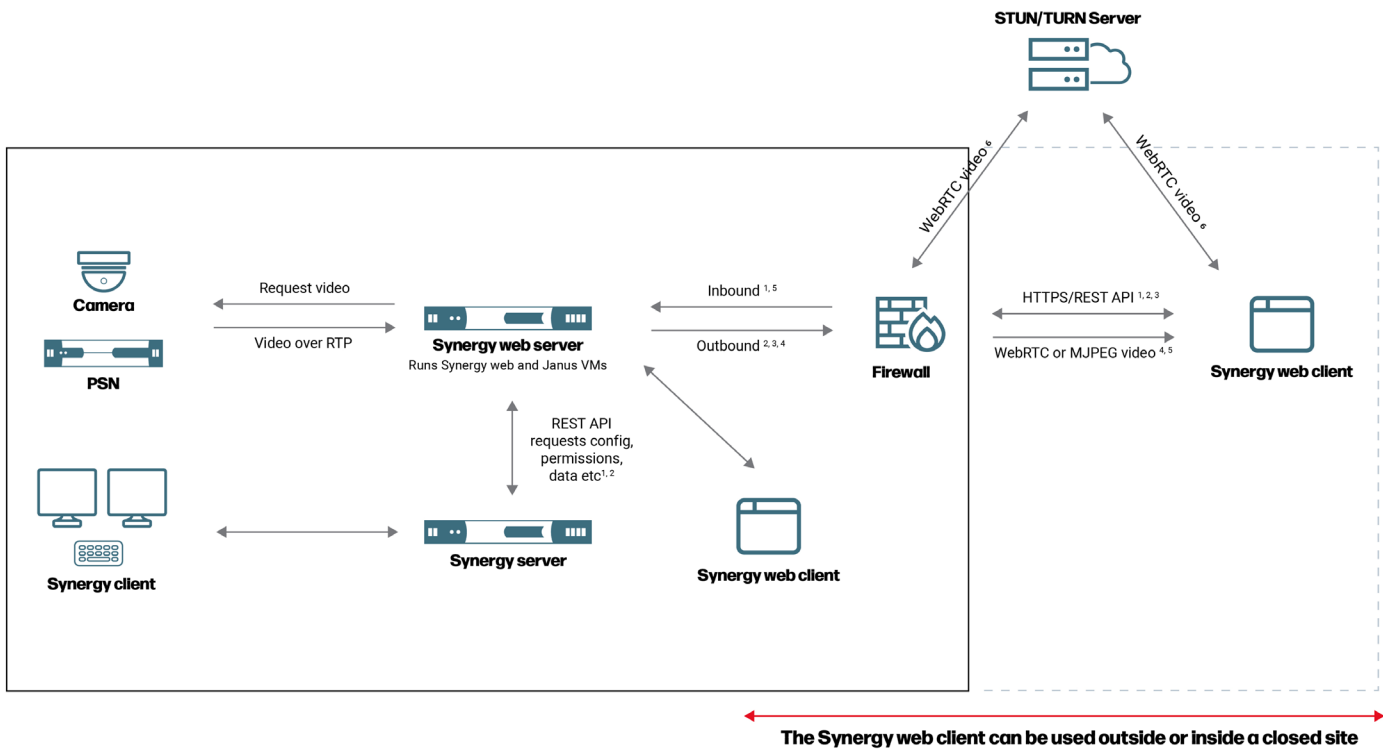
#	DESCRIPTION	PORT (*CONFIGURABLE)
1	Inbound HTTP/HTTPS traffic from Synergy web client	80/443*
2	Outbound Synergy Server REST API	8099*
3	Outbound Synergy Server Generic Request service	9876*
4	Outbound Janus TCP	8088
5	Inbound Janus RTSP	554
6	WebRTC video via STUN/TURN (negotiated port)	19302

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.

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

SYNECTICS

www.synecticsglobal.com