

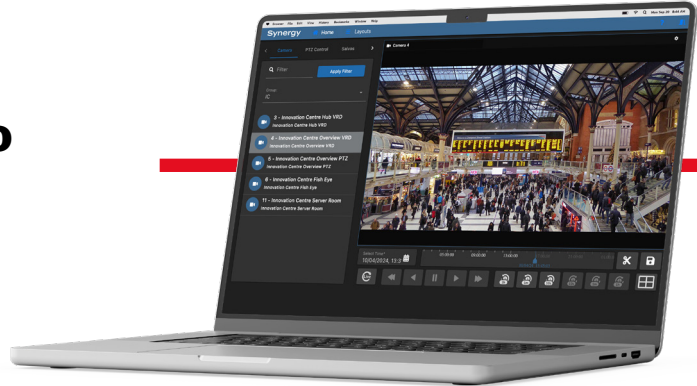
# SYNECTICS

## 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.\*<sup>1</sup>

| GENERAL   | SYNERGY SERVER MAX   |
|---|--|
| Dimensions<br>(W x H x D)   | 1U rack-mountable server<br>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)<br>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<br>(Based on Maximum Configuration)             | 180w (614 BTUs per hour)   |
| CONNECTIVITY  | SYNERGY SERVER MAX   |
| Networking<br>(Standard)  | 2x 10Gbps RJ45 (10G-BASE-T) via included network adapter   |
| Networking<br>(Optional Alternatives)                                     | 2x 10Gbps SFP+<br>4x 10Gbps RJ45<br>4x 1Gbps RJ45  |
| Out-Of-Band (OOB) Networking<br>(Dedicated Management and Health Toolset) | 1x RJ45  |
| USB   | Front: 1x USB 3.1 G1 Type-A, 1x USB 2.0 Type-A<br>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<br>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.

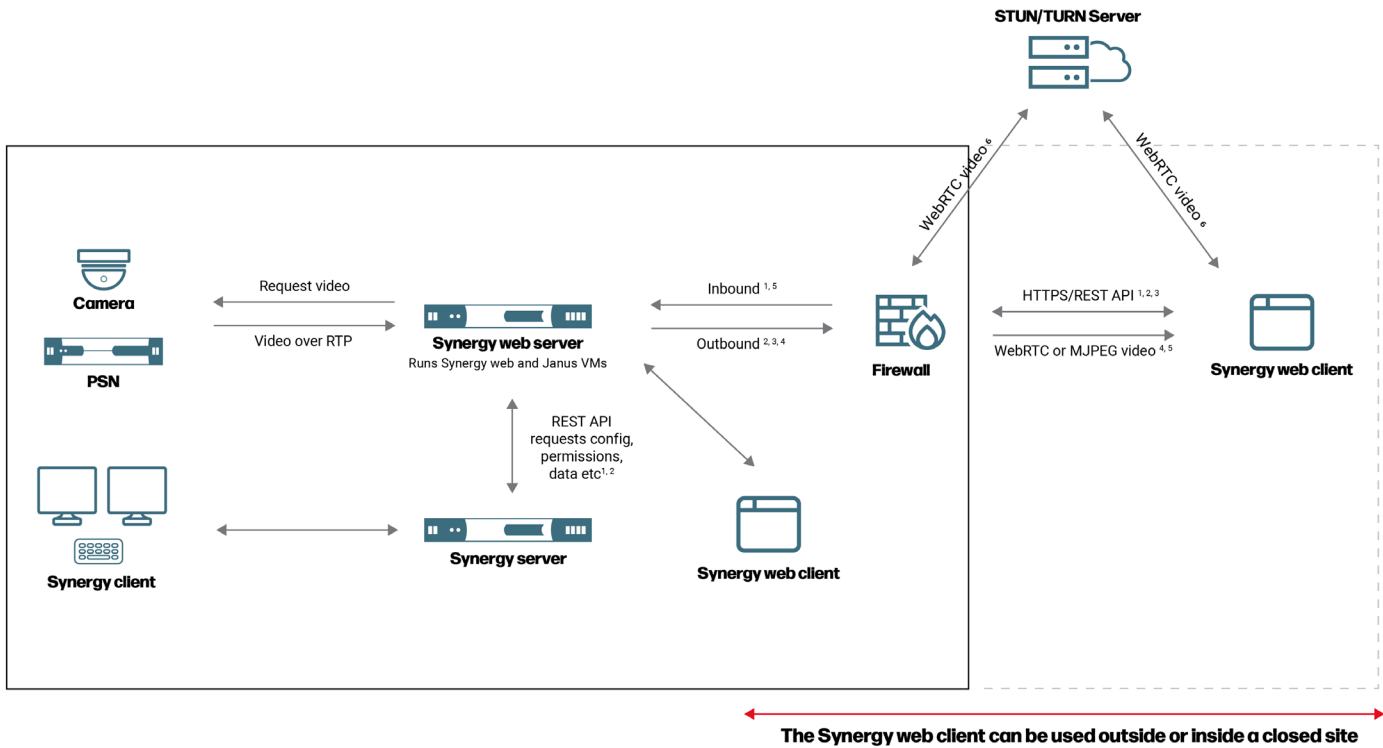
**PART CODES**

|                           |   |
|---------------------------|---|
| 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 5  |
| SY-SERVERMAX-V1-21TB-R5   | Synergy Server Max V1 1U – 21TB RAID 5  |
| SY-SERVERMAX-V1-32TB-R5   | Synergy Server Max V1 1U – 32TB RAID 5  |
| SY-SERVERMAX-V1-43TB-R5   | Synergy Server Max V1 1U – 43TB RAID 5  |
| SY-SERVERMAX-V1-54TB-R5   | Synergy Server Max V1 1U – 54TB RAID 5  |
| SY-SSW-SYNERGY-WEB        | Synergy software for web client and mobile app, annual subscription<br>(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.