

SYNECTICS

Synergy Client Range

Optimised workstation hardware for your critical control room operations

The Synergy client range provides the reliability and optimal video playback performance you need for your 24/7 security operations.



Why Choose the Synergy Client?

Designed for Video

Extensively tested to ensure high reliability for your critical 24/7 control room operations.

Flexible Format

Micro, Pro and Ultra hardware options are available to suit your unique video playback requirements.

Optimised

Synergy automatically selects a lower resolution secondary IP stream (where available) in high quantity video window layouts to maximise performance without picture quality loss.

Scalable

Hundreds of Synergy clients can be configured per system, allowing your system to expand as requirements change.

High Performance

Up to 32x HD or 4x 4K streams are supported per device, allowing operators to monitor a wide range of video streams at their workstation.

Multi-Monitor

Up to four monitors can be supported when using the Ultra Client, maximising the benefits of the customisable Synergy user interface.

Key Features

- Up to 32 video windows across 2x monitors
- Support for H.265 video streams, with 60FPS and 4K video streams supported on Ultra hardware
- Flexible layouts per monitor – full screen, quad, 3x3, 4x4 and more are available
- Workstation-grade hardware designed for 24/7 usage
- An optimised Windows 10 OS ensures easy installation and minimised downtime

Specifications

CLIENT	Number of Monitors	Maximum SD Windows ^{*1}	Maximum HD H.264 Windows ^{*2}	Maximum HD H.265 Windows ^{*3}	4K H.264 ^{*4}	4K H.265 ^{*5}
Micro v4.1	1 x 1080p	16 (4x4)	12 (12+1)	12 (12+1)	1	1
	2 x 1080p (1 Video + 1 Standard Mapping) ⁶	16 (4x4)	9 (3x3)	9 (3x3)	1	1
	2 x 1080p	32 (4x4 + 4x4)	9 (7+1 + 1)	9 (7+1 + 1)	1	1
Pro v4	1 x 1080p	16 (4x4)	16 (4x4)	16 (4x4)	1	1
	2 x 1080p (1 Video + 1 Standard Mapping) ⁶	16 (4x4)	16 (4x4)	16 (4x4)	1	1
	2 x 1080p	32 (4x4 + 4x4)	18 (3x3 + 3x3)	18 (3x3 + 3x3)	2 (1+1)	2 (1+1)
Ultra v4	1 x 1080p	16 (4x4)	16 (4x4)	16 (4x4)	4 (2+2)	4 (2+2)
	1 x 4K ^{*7}	16 (4x4)	16 (4x4)	16 (4x4)	4 (2+2)	4 (2+2)
	2 x 1080p (1 Video + 1 Standard Mapping) ⁶	16 (4x4)	16 (4x4)	16 (4x4)	4 (1x2 +1x2)	4 (1x2 +1x2)
	2 x 4K (1 Video + 1 Standard Mapping) ⁶	16 (4x4)	16 (4x4)	16 (4x4)	4 (1x2 +1x2)	4 (1x2 +1x2)
	2 x 1080p	32 (4x4 + 4x4)	32 (4x4 + 4x4)	32 (4x4 + 4x4)	4 (1x2 +1x2)	4 (1x2 +1x2)
	2 x 4K	32 (4x4 + 4x4)	32 (4x4 + 4x4)	32 (4x4 + 4x4)	4 (1x2 +1x2)	4 (1x2 +1x2)

IT ARCHITECTURE

CPU	Intel Core i5 Sapphire Rapids
RAM	16GB DDR 4 (Micro) / 16GB DDR 5 (Pro/Ultra)
Host OS	Microsoft Windows 10 IOT Enterprise LTSC 2021
OS Disk	256GB NVMe

PORTS

	Micro v4.1	Pro v4	Ultra v4
USB	Front Side: 2 x USB 3.2 Gen 2 Type A 1 x USB 3.2 Gen 1 Type C Rear Side: 3 x USB 3.2 Gen 1 Type A 1 x USB 3.2 Gen 2 Type A 1 x USB 3.2 Gen 1 Type C	Front Side: 1 x USB 3.2 Gen 2 Type-A 1 x Thunderbolt Type-C Rear Side: 4 x USB 3.2 Gen 2 Type-A	Front Side: 1 x USB 3.2 Gen 2 Type-A 1 x Thunderbolt Type-C Rear Side: 4 x USB 3.2 Gen 2 Type-A
Ethernet	1 x 1000BT NIC	1 x 2500BT NIC 1 x 1000BT NIC (Teamable)	1 x 2500BT NIC 1 x 1000BT NIC (Teamable)
Display	1 x DisplayPort 1 x HDMI	3 x DisplayPort (2x HDMI adapters included)	4 x Mini DisplayPort (adapters not included, please see accessories)
Audio	Line-out / Display / Mic-in	Line-out / Display / Mic-in	Line-out / Display / Mic-in

POWER

	Micro v4.1	Pro v4	Ultra v4
Hot Swap PSU	No	No	No
Power Consumption	Max 90W / Norm 35W	Max 130W / Norm 35W	Max 150W / Norm 60W
BTU's	Max 307, Normal 120 Per Hour	Max 444, Normal 120 per Hour	Max 512, Normal 205 per Hour
Supply	100-240VAC 1.5A 50-60Hz	100-240 VAC 4A 50-60Hz	External 100-240 VAC, 15A 50-60Hz

GENERAL

	Micro v4.1	Pro v4	Ultra v4
Size (H x W x D)	179 mm x 36.5 mm x 182.9 mm / 7.04" x 1.44" x 7.2"	202 mm x 87 mm x 223 mm 7.95" x 3.43" x 8.78"	202 mm x 87 mm x 223 mm 7.95" x 3.43" x 8.78"
Weight	1.25 kg / 2.76 lbs	3.6 kg / 7.94 lbs	3.6 kg / 7.94 lbs
Operating Temperature	5°C (41°F) to 35°C (95°F)	10°C (50°F) to 35°C (95°F)	10°C (50°F) to 35°C (95°F)
Storage Temperature	-40°C (40°F) to 60°C (140°F)	-10°C (14°F) to 60°C (140°F)	-10°C (14°F) to 60°C (140°F)
Humidity	20% to 80% Non-condensing	10% to 80% Non-condensing	20% to 80% Non-condensing

APPLIANCE FUNCTIONALITY	Micro v4.1	Pro v4	Ultra v4
Synectics Watchdog Compliant	Yes	Yes	Yes
VESA Mount	Yes	No	No

ACCESSORIES	Synectics Part Number	Compatible With
Additional 1Gbps NIC PCIe card, for where more resilient network connections are required	SY-SYNERGY-V3NIC	Pro v3, Pro v3.1, Ultra v3, Ultra v3.1
DisplayPort to HDMI 2.0 adapter Two adapters are included only with the Pro V4, but this item is available as a spare if required	87-0177-0000	Pro v3, Pro v3.1, Micro v4, Micro v4.1, Pro v4
Mini DisplayPort to HDMI 2.0 adapter	00-2810-0003	Ultra v3, Ultra v3.1, Ultra v4
Mini DisplayPort to DisplayPort adapter	00-2810-0004	Ultra v3, Ultra v3.1, Ultra v4

*1 2.0 Mbps H.264 or 1.0 Mbps H.265

*2 6.0 Mbps H.264

*3 4.0 Mbps H.265

*4 20.0 Mbps H.264

*5 12.0Mbps H.265

*6 Results for Standard Mapping , for Advanced Mapping and GIS Mapping please see Synectics.

*7 For 3440 x 1440 Ultra-wide Monitors use 4K results.



Micro v4.1

Pro / Ultra v4