

Synectics Synergy™ Client Range



Synectics Synergy Client Range, available in Micro, Pro and Ultra formats, provides high-powered workstations for the Synergy 3 command and control platform.

With a powerful CPU and graphics capability, Synergy Clients efficiently display full frame rate video streams with unparalleled user-friendly camera, monitor wall, PTZ and DVR/NVR control.

Configurable with up to four monitors¹ (with up to two dedicated for video) at up to 4K resolution, optional touchscreens and a variety of PTZ

controllers, Synectics' range of Clients have been designed to allow the user to select the format that best meets the site requirements.

When displaying high numbers of HD or 4K camera streams Synergy 3 will automatically switch from streaming the primary HD stream to the secondary HD stream², to ensure full frame rate high-quality video is still presented, without perceived quality loss. This allows for a high camera count to be displayed irrespective of the SD, HD or 4K camera mix.

Features

- Simultaneously display live/recorded analog, SD, HD IP and 4K cameras
- Open integration design supports ONVIF protocol standard devices
- Optional automatic camera bit rate management enables the view of a high number of video playback windows by auto selecting second streaming camera functionality on high camera count configurations
- Scalable to hundreds of clients per site

MICRO V4



A powerful, yet compact device, the Synergy Client Micro is ideal for entry level deployments requiring basic video management, such as reception areas, guard stations and remote facilities. The VESA³ mount makes the Micro well-suited for installations where space is a premium.

PRO V3.1



Designed for larger-scale control room deployments, the Synergy Client Pro delivers superior video reproduction across two monitors, and camera control with exceptional operational, fault, and alarm and integration management.

ULTRA V3.1



The Synergy Client Ultra⁴ is the ideal device for command and control systems where one to four Synergy monitors, at up to 4K in resolution, are essential. The Ultra enables additional on-screen information per workstation to be displayed at all times, as well as an additional spot monitor for further video playback.

¹ See technical specification for full details

² Secondary stream functionality must be supported by the camera (live video only)

³ Unit can be mounted directly to the back of a monitor using VESA mount options of 75 mm (2.953") or 100 mm (3.937")

⁴ Ultra configuration is map monitor, playback monitor, alarm monitor and spot monitor or part thereof.

H.264 and H.265 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 x 1080P	16 (4x4)	12 (12+1)	12 (12+1)	1	1
	2 x 1080P (1 Video and one 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 V3.1	1 x 1080P	16 (4x4)	16 (4x4)	16 (4x4)	1	1
	(1 x 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 V3.1	1 x 1080P	16 (4x4)	16 (4x4)	16 (4x4)	4 (2+2)	4 (2+2)
	1 x 4K	16 (4x4)	16 (4x4)	16 (4x4)	4 (2+2)	4 (2+2)
	2 x 1080P (1 Video and one Standard Mapping) ⁶	16 (4x4)	16 (4x4)	16 (4x4)	4 (1x2+1x2)	4 (1x2+1x2)
	2 x 4K (1 Video and one 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)
	2x 4K	32 (4x4 + 4x4)	32 (4x4 + 4x4)	32 (4x4 + 4x4)	4 (1x2 + 1x2)	4 (1x2 + 1x2)

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.

IT ARCHITECTURE	
CPU	Intel Core i5 Comet Lake (Micro/Pro) / Intel Core i7 Comet Lake (Ultra)
RAM	16GB DDR4
O/S	Microsoft Windows IOT Enterprise LTSC
OS Disk	256GB NVMe

PORTS	Micro V4	Pro V3.1	Ultra V3.1
USB	Front Side- USB 3.2 Gen 2 Type A USB 3.2 Gen 1 Type C Rear Side- 3x USB 3.2 Gen 1 Type A 1x USB 3.2 Gen 2 Type A 1x USB 3.2 Gen 1 Type C	Front Side – 2x USB 3.2 Gen 2 Type A 2x USB 3.2 Gen 1 Type A 1 x USB 3.2 Gen 1 Type-C Rear – 2x USB 3.2 Type A 2x USB 2.0 Type A	Front Side – 2x USB 3.2 Gen 2 Type A 2x USB 3.2 Gen 1 Type A 1 x USB 3.2 Gen 1 Type-C Rear – 2x USB 3.2 Type A 2x USB 2.0 Type A
Ethernet	1 x 1000BT NIC	1x 1000BT NIC (Optional: Additional Teamable 1000BT NIC)	1x 1000BT NIC (Optional: Additional Teamable 1000BT NIC)
Display	1x DisplayPort 1x HDMI 1x USB Type C (Rear) DisplayPort	2x DisplayPort (2x HDMI adapters included)	4x Mini DisplayPort (adapters not included, please see accessories)
Audio	Line-out / Display / Mic-in	Line-out / Display / Mic-in	Line-out / Display / Mic-in
Serial Connection	via IP Device	1	1

POWER	Micro V4	Pro V3.1	Ultra V3.1
Hot Swap PSU	No	No	No
Power Consumption	Max 130W / Norm 35W	Max 130W / Norm 35W	Max 150W / Norm 60W
BTU's	Max 444, 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	100-240 VAC 4A 50-60Hz

GENERAL	Micro V4	Pro V3.1	Ultra V3.1
Size (H x W x D)	179mm x 36.5mm x 182.9mm / 7.04" x 1.44" x 7.2"	339.5mm x 92.5mm x 309.7mm 13.37" x 3.64" x 12.19"	339.5mm x 92.5mm x 309.7mm 13.37" x 3.64" x 12.19"
Device Weight	1.32kg / 2.91lbs	5.65 kg / 12.46 lbs	5.65 kg / 12.46 lbs
Operating Temperature	15°C (41°F) to 35°C (95°F)	10°C- 35°C / 50°F- 95°F	10°C- 35°C / 50°F- 95°F
Storage Temperature	-10°C- 60°C / 14°F- 140°F	-10°C- 60°C / 14°F- 140°F	-10°C- 60°C / 14°F- 140°F
Humidity	20% to 80% Non-condensing	10% to 80% Non-condensing	10% to 80% Non-condensing
Certifications and Approvals	FCC, CE, VCCI, BSMI, KC, RCM, CB, KUCAS, CCC, PSB, SABS, EAC, CM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC, NOM	FCC, CE, cTUVus, KC, VCCI, BSMI, IEC60950-1, IEC62368, KUCAS, CCC, PSB, SABS, EAC, CM, NOM, EAC, KVALITET, UKrCEPRO, BIS, EQM	FCC, CE, cTUVus, KC, VCCI, BSMI, IEC60950-1, IEC62368, KUCAS, CCC, PSB, SABS, EAC, CM, NOM, EAC, KVALITET, UKrCEPRO, BIS, EQM
Virus Protection Included	Yes	Yes	Yes
TPM (Trusted Platform Module)	2.0	2.0	2.0

APPLIANCE FUNCTIONALITY	Micro V4	Pro V3.1	Ultra V3.1
Synectics Watchdog Compliant	Yes	Yes	Yes
Rack Kit	No	No	No
Wall Mount	No	No	No
VESA Mount	Yes	No	No
EX300 Support	Yes	Yes	Yes
EX250 Joystick Support	Yes	Yes	Yes
EX100 Joystick Support	Yes	Yes	Yes
Synergy Compatibility	Synergy 3	Synergy 3	Synergy 3
CDR / DVDR	Optional (via external drive)	Yes (internal)	Yes (internal)

ACCESSORIES	Synectics Part Number	Compatible With
Keyboard (US layout) and mouse	85-3259-0001	All client hardware
Keyboard (UK layout) and mouse	85-3259-0000	All client hardware
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 V3.1, but this item is available as a spare if required	87-0177-0000	Pro V3, Pro V3.1, Micro V4
Mini DisplayPort to HDMI 2.0 adapter	00-2810-0003	Ultra V3, Ultra V3.1
Mini DisplayPort to DisplayPort adapter	00-2810-0004	Ultra V3, Ultra V3.1
USB DVD Writer	SY-SYNERGY-DVD	Micro V3, Micro V4