

SYNECTICS

Synergy Display Wall Range

Flexible display of IP video streams and Synergy operational data for your control room

With support for Synergy-compatible live and recorded IP video streams, and easy drag-and-drop control for operators, Synergy Display Walls are ideal for visualising your key video and operational data.



Why Choose the Synergy Display Wall?

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.

Responsive

Display walls can be configured to respond to selected events in your system, to ensure that relevant video and data is front of the operators during critical incidents.

Scalable

Hundreds of display walls can be configured per system and displayed as visualised layouts in Synergy, making it simple for operators to make changes to the displays.

High Performance

Up to 32x HD or 4x 4K streams are supported per device, with dynamic selection of secondary streams (where available) to further enhance video playback performance.

Data Insights

A range of key system data can be displayed alongside video to support your day-to-day monitoring – such as RSS feeds, incoming alarms, reports/charts, and web pages.

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

DISPLAYWALL	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	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	32 (4x4 + 4x4)	18 (3x3 + 3x3)	18 (3x3 + 3x3)	2 (1+1)	2 (1+1)
	1 x 4K	8 (7+1)	4 (2x2)	4 (2x2)	1	1
Ultra v4	1 x 1080p	16 (4x4)	16 (4x4)	16 (4x4)	4 (2x2)	4 (2x2)
	1 x 4K ^{*7}	16 (4x4)	16 (4x4)	16 (4x4)	4 (2x2)	4 (2x2)
	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	Front Side: 1 x USB 3.2 Gen 2 Type-A 1 x Thunderbolt Type-C	Front Side: 1 x USB 3.2 Gen 2 Type-A 1 x Thunderbolt 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	Rear Side: 4 x USB 3.2 Gen 2 Type-A	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)	179mm x 36.5mm x 182.9mm / 7.04" x 1.44" x 7.2"	202mm x 87mm x 223mm 7.95" x 3.43" x 8.78"	202mm x 87mm x 223mm 7.95" x 3.43" x 8.78"
Weight	1.25 kg / 2.76 lbs	3.6 kg / 7.94lbs	3.6 kg / 7.94lbs
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
Certifications and Approvals	FCC, CE, VCCI, BSMI, KC, RCM, CB, KUCAS, CCC, PSB, SABS, EAC, CM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC, NOM	FFCC/IC, VCCI, BSMI, KC, RCM, TUV-GS, cTUVus, CB, EQM, KUCAS, CCC, SABS, EAC, CM, NOM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC	FCC/IC, VCCI, BSMI, KC, RCM, TUV-GS, cTUVus, CB, EQM, KUCAS, CCC, SABS, EAC, CM, NOM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC
Virus Protection Included	Yes	Yes	Yes
TPM (Trusted Platform Module)		Yes	Yes
TPM (Trusted Platform Module)	2.0	2.0	2.0

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

*7 For 2x2 4 Monitor Cluster, use 1 Monitor Performance



Micro v4.1

Pro / Ultra v4