

Q-SYS Core Processor Comparison Chart



Q-SYS Core processors are driven by the Q-SYS OS, a software-based foundation for audio, video, and control with the flexibility to manage a wide range of installation types. This chart doesn't provide a definitive list of applications for each Core, but is intended to help you select the best AV&C processor based on the I/O requirements and scale of your unique installation.



Q-SYS V-CORE

Virtualized processor for Q-SYS

Ideal for: less complex spaces whose audio/UC&C requirements are fulfilled by simple, standalone hardware or applications that don't require Q-SYS audio or video.



NV-32-H (Core Capable)

Ideal for: in-room processing and video collaboration in small or medium-sized meeting rooms and classrooms



Core Nano

Ideal for: small spaces with only network-based endpoints; centralized processing for multiple small rooms



Core 8 Flex

Ideal for: small spaces needing onboard I/O and in-room processing



Core 110f

Ideal for: medium to large spaces needing onboard I/O; in-room processing or centralized processing



Core 610i

Ideal for: centralized processing for multiple rooms or large venues with only network-based endpoints, campus-wide distribution for BGM or paging



Core 5200

Ideal for: large, mission-critical systems; centralized processing with network-based endpoints



Small meeting room



Classroom



Hospitality



Small meeting room



Classroom



Small meeting room



Executive boardroom



Small hospitality



Classroom



Active learning space



Executive boardroom



Small hospitality



Classroom



Active learning space



Executive boardroom



All-hands/training



Hospitality



Restaurant



Lecture hall



Classroom



All-hands/training



Performance venue



College



Lecture hall



Railways



corporate campus



cruise ship



stadium



convention center



airport



theme park



● # of spaces with network only peripherals

● # of spaces with network & analog peripherals

● Control Only

Q-SYS Core Processor Comparison Chart



Base Features

	vCore + Q-SYS Control license	NV-32-H (Core Capable)	Core Nano	Core 8 Flex	Core 110f	Core 610	Core 5200	
Audio	Total network I/O	-	40 x 32	64 x 64	64 x 64	128 x 128 ¹	256 x 256	512 x 512
	Onboard I/O	-	HDMI (8-ch per port) 3.5 mm (2 x 2)	-	8x flex	8x in, 8x out, 8x flex	-	-
	Software-based Dante capacity	-	none included (up to 32 x 32)	8 x 8 included (up to 32 x 32)	8 x 8 included (up to 32 x 32)	8 x 8 included (up to 32 x 32)	8 x 8 Included (up to 256 x 256)	8 x 8 included (up to 512 x 512)
	Media / WAN network channels	-	12 x 12	12 x 12	12 x 12	24 x 24	64 x 64	256 x 256
	Q-SYS NM-T1 microphone capacity (wide-band mode)	-	3	3	3	4	14	28
	USB audio channel count	-	3 x 3	8 x 8	8 x 8	16 x 16	-	-
	Audio recording/playback	-	4 ch recording/ 16 ch playback	4 ch recording/ 16 ch playback (expandable to 32 ch)	4 ch recording/ 16 ch playback (expandable to 32 ch)	4 ch recording/ 16 ch playback (expandable to 32 ch)	4 ch recording/ 16 ch playback (expandable to 128 ch)	4 ch recording/ 16 ch playback (expandable to 128 ch)
Connected Collaboration	AEC processors	-	8	8	8	16	64	160
	VoIP instances	-	1	2	2	4	64	64
	Native video distribution control (via NV Series peripheral)	-	✓	✓	✓	✓	✓	✓
	Local HDMI switching	-	✓	-	-	-	-	-
	Onboard AV bridging (USB)	-	✓	✓	✓	✓	-	-
Control	Full-featured scripting engine license	Included	Optional	Optional	Optional	Optional	Optional	Included
	UCI deployment license	Included	Optional	Optional	Optional	Optional	Optional	Included
	GPIO ²	-	2 in x 3 out	-	8 x 8	-	-	-
	RS232 ²	-	1	2	2	1	1	1
Other	Q-SYS peripheral limit ³	16	32	32	32	32x NV-32-H ³ 32x NL, NM and/or QIO Series ³	-	-
	Size	-	1/2 rack, 1RU	1/2 rack, 1RU	1/2 rack, 1RU	1RU	1RU	2RU

Q-SYS™ SCALING LICENSES



Expand select feature sets at the software level with Q-SYS Scaling licenses. Whether choosing features before installation or as business needs change, Q-SYS feature licenses let you easily add functionality without the need for additional hardware.



	Core Nano & Core 8 Flex base configuration	+ Commercial Bundle scaling license	+ Collaboration Bundle scaling license	Core 610	+ Core 610 scaling license
Total network I/O	64 x 64	128 x 128	128 x 128	256 x 256	384 x 384
DSP processing power	1x	2x	2x	16x	24x
AEC processors	8	8	16	64	96
VoIP instances	2	2	4	64	64
Q-SYS NM-T1 microphone capacity (wide-band mode)	3	3	6	14	21
Media / WAN network channels	12 x 12	24 x 24	12 x 12	64 x 64	96 x 96
Q-SYS peripheral limit	32	48	32	-	-