

Q-SYS™

CORE PROCESSOR

COMPARISON CHART

QSC

Q-SYS Core processors are the heart of a Q-SYS system, handling all of the audio, video, and control processing for any installation type. 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.



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 510i

ideal for: multiple rooms or large spaces/facilities, 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



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

	NV-32-H (Core Capable)	Core Nano	Core 8 Flex	Core 110f	Core 510i	Core 5200	
audio	total network I/O	32 x 32	64 x 64	64 x 64	128 x 128	256 x 256	512 x 512
	onboard I/O	HDMI (8-ch per port) 3.5 mm (1 x 1)	—	8 flex	8x in, 8x out, 8x flex	128 x 128 (8x I/O card slots)	—
	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 128 x 128)	8 x 8 included (up to 512 x 512)
	USB audio channel count	TBD	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
	universal web conferencing compatibility	✓	✓	✓	✓	✓	✓
	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	optional	optional	optional	optional	optional	included
	UCI deployment license	optional	optional	optional	optional	optional	included
	onboard GPIO	2 in x 3 out	—	8 x 8	16 x 16	16 x 16	—
	onboard RS232 control ports	1	2	2	1	1	1
other	Q-SYS peripheral limit*	32	32	32	—	—	—
	size	1/2 rack, 1RU	1/2 rack, 1RU	1/2 rack, 1RU	1RU	2RU	2RU