Q-SYS™

CORE PROCESSOR
COMPARISON CHART

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.

QSC

NV-32-H (Core Capable)
ideal for: in-room processing and video collaboration in small- or medium-sized meeting rooms and classrooms

small meeting room   classroom

Core Nano
ideal for: small spaces with only network-based endpoints; centralized processing for multiple small rooms

small meeting room   executive boardroom   small hospitality   classroom   active learning space

Core 8 Flex
ideal for: small spaces needing onboard I/O and in-room processing

executive boardroom   small hospitality   classroom   active learning space

Core 110f
ideal for: medium to large spaces needing onboard I/O; in-room processing or centralized processing

executive boardroom   all-hands/training   hospitality   restaurant   lecture hall   classroom

Core 510i
ideal for: multiple rooms or large spaces/facilities, campus-wide distribution for BGM or paging

all-hands/training   performance venue   college   lecture hall   railways

Core 5200
ideal for: large, mission-critical systems; centralized processing with network-based endpoints

corporate campus   cruise ship   stadium   convention center   airport   theme park
~50

● # of spaces with **network** only peripherals
◐ # of spaces with **network & analog** peripherals

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		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)	coming soon	coming soon
	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