

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.



### Core Nano

**ideal for:** small spaces with only network-based endpoints only; 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  
~50



cruise ship  
●



stadium  
●



convention center  
●



airport  
●



theme park  
●

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



	Core Nano	Core 8 Flex	Core 110f	Core 510i	Core 5200	
audio	total network I/O	64 x 64	64 x 64	128 x 128	256 x 256	512 x 512
	onboard I/O		8 flex	8x in, 8x out, 8x flex	128 x 128 (8x I/O card slots)	
	Software-based Dante capacity	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	8 x 8	8 x 8	16 x 16		
	Audio recording/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	16	64	160
	universal web conferencing compatibility	✓	✓	✓	✓	✓
	VoIP instances	2	2	4	64	64
	network video routing	✓	✓	✓	✓	✓
	onboard AV bridging (USB)	✓	✓	✓		
control	full-featured scripting engine license	✓	✓	✓	✓	✓
	UCI Editor license	✓	✓	✓	✓	✓
	onboard GPIO		8 x 8	16 x 16	16 x 16	
	onboard RS232 control ports	2	2	1	2	1
other	size	1/2 rack, 1RU	1/2 rack, 1RU	1RU	2RU	2RU