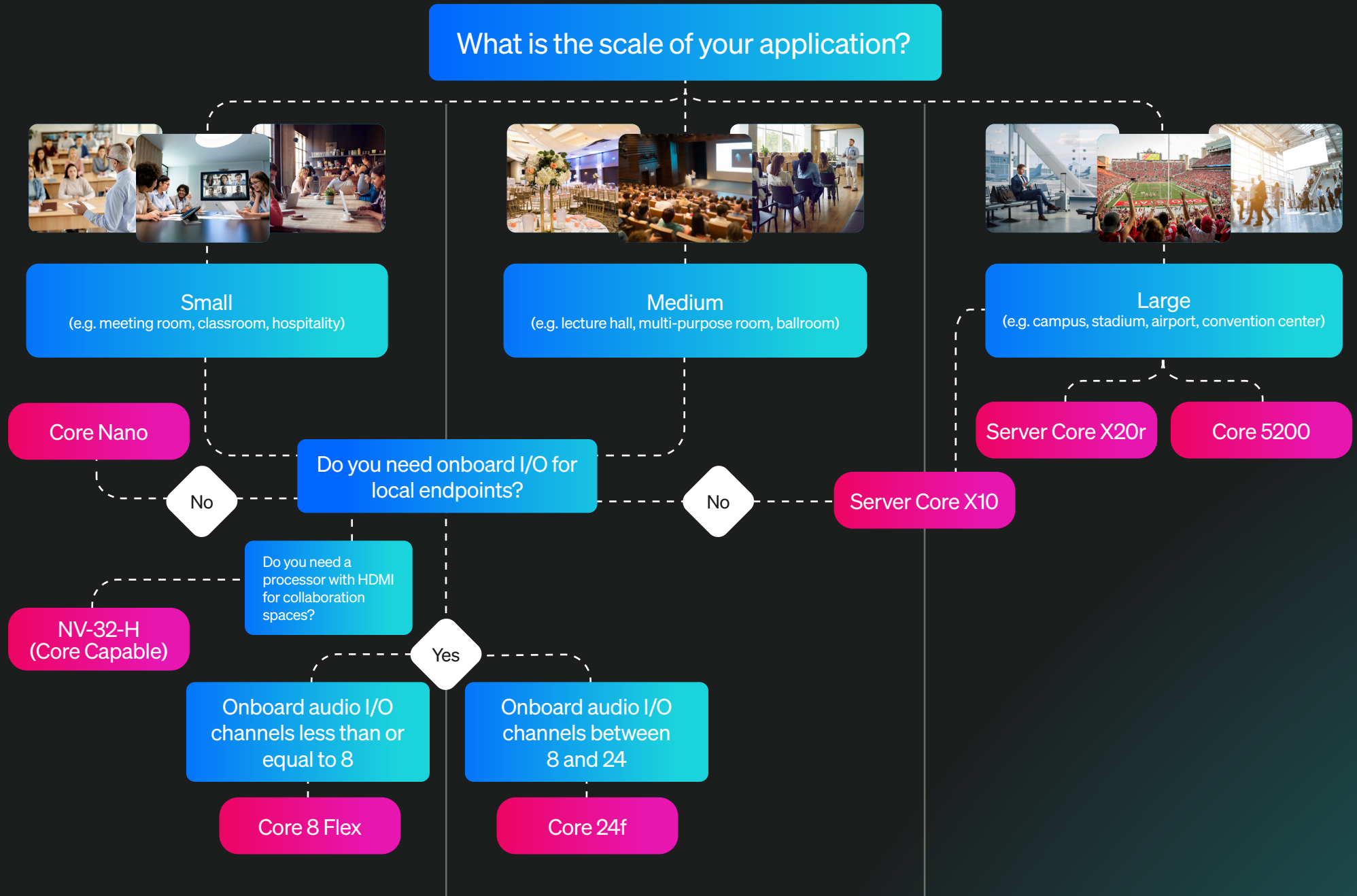


Q-SYS Processing

Choosing the right Core for your application



Q-SYS Core processors are driven by the Q-SYS Full Stack AV Platform which delivers a fully integrated audio, video and control solution that offers simpler integration and software-based scalability. This decision tree 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 scale and I/O requirements of your unique installation.



| | Core Nano | Core 8 Flex | NV-32-H (Core Capable) | Core 24f | Server Core X10 | Server CoreX20r | Core 5200 |
|--|--|--|--|--|--|--|--|
| Total network I/O channels | 64 × 64 | 64 × 64 | 64 × 32 | 160 × 160 | 256 × 256 | 384 × 384 | 512 × 512 |
| Onboard I/O | - | 8 flex | HDMI x3 (8-ch per port) Stereo 3.5 mm (2 × 2) | 8x in, 8x out, 8x flex | - | - | - |
| Dante channels | 8 × 8 included (licensable up to 32 × 32) | 8 × 8 included (licensable up to 32 × 32) | None included (licensable up to 32 × 32) | 8 × 8 included (licensable up to 64×64) | 8 × 8 included (licensable up to 128 × 128) | 8 × 8 included (licensable up to 256 × 256) | 8 × 8 included (licensable up to 512 × 512) |
| Media/WAN channel capacity | 12 × 12 | 12 × 12 | 12 × 12 | 36 × 36 | 64 × 64 | 96 × 96 | 256 × 256 |
| AEC channels (200ms) | 8 | 8 | 8 | 24 | 64 | 128 | 160 |
| VoIP softphones | 2 | 2 | 1 | 8 | 32 | 64 | 64 |
| USB audio channels | 8 × 8 | 8 × 8 | 3 × 3 | 16 × 16 | - | - | - |
| Local HDMI switching or network video streaming (license required) | - | - | ✓ | - | - | - | - |
| Integrated USB audio/video bridging | ✓ | ✓ | ✓ | ✓ | - | - | - |
| Onboard GPIO | - | ✓ | ✓ | ✓ | - | - | - |
| Onboard RS-232 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Peripheral count ¹ | 32 | 32 | 32 | 96 | 256+ | 256+ | 256+ |
| Media drive capacity | 16 GB | 16 GB | - | 128 GB | 256 GB | 480 GB | 960 GB |
| Size | 1/2 rack, 1RU | 1/2 rack, 1RU | 1/2 rack, 1RU | 1RU | 1RU | 1RU | 2RU |

1. Refer to Q-SYS Designer Help file for more details on peripheral limits

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**

**+ Capacity
Scaling license**

| | | |
|-------------------------------------|---------|------------|
| Q-LAN/AES67 network channels | 64 × 64 | 128 × 128 |
| DSP processing power | 1x | Approx. 2x |
| Softphones | 2 | 4 |
| AEC channels @ 200 ms | 8 | 16* |
| NM-T1 capacity | 3 | 6* |
| Media/WAN network channels | 12 × 12 | 24 × 24 |
| Q-SYS peripherals | 32 | 48 |

* NM Series NM-T1 microphones and third-party microphone AEC processing share similar processing resources. When using both in the same Q-SYS design, the maximum number of AEC resources for NM-T1 and third-party microphones works on a sliding scale.