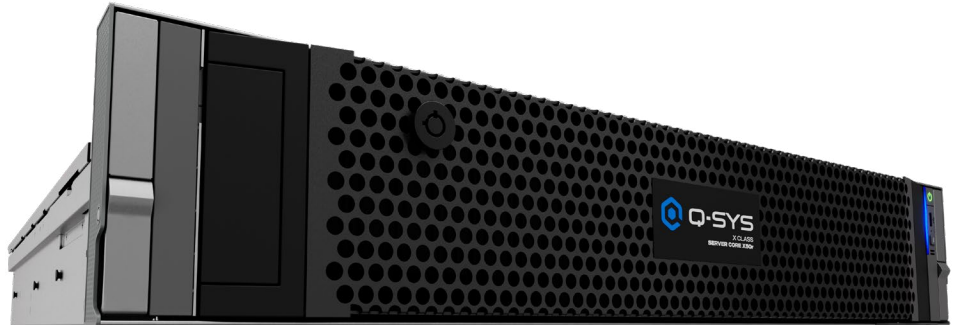


Q-SYS Server Core X50r

Network I/O processor

KEY FEATURES

- Up to 4096 × 4096 networked audio channels (Q-LAN / AES67)
- 256x AEC channels @ 200 ms
- Includes 8 × 8 Software-based Dante channels (licensable up to 512 × 512)
- Dual redundant, hot-swappable power supplies
- Up to 96 VoIP softphone instances
- 256 × 256 Media / WAN streaming capacity
- 16x multitrack playback channels (up to 256 with optional stackable feature license)
- 4x multitrack record channels
- 4x 10Gbps capable SFP+ ports (pre-installed 2x 10Gbps fiber / 2x 1Gbps copper RJ45; field-replaceable)
- Onboard 960 GB media drive
- 2RU form factor



Server Core X50r is the most powerful AV&C processor on the market delivering an abundance of DSP processing power and network audio capacity to serve the most demanding and complex large-scale AV deployments.

NEW CLASS OF Q-SYS PROCESSORS

Q-SYS X Class Server Cores combine the Q-SYS Full Stack AV Platform with industry-proven IT server hardware to meet the flexibility and scalability demands of the applications from corporate and higher education to hospitality, entertainment and beyond. These Cores are fully networked, making them ideal for running centralized, mission-critical AV services that pair with edge-based network I/O and/or distributed processing.

A CHOICE FOR ANY APPLICATION

Q-SYS Server Core X50r offers 5x the DSP processing power of the Server Core X10 (driven in part by its Dell server hardware) offering 10Gbps networking support to allow thousands of network audio channels (including up to 512 × 512 Dante audio channels), and advanced features like redundant, hot-swappable power supplies to meet the modern demands of the most vital AV applications.

SINGULAR SOFTWARE PLATFORM

All Q-SYS Cores 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. All Q-SYS Cores leverage the same, singular software-based foundation that offers unique flexibility to manage any processing topology, from the building or venue-wide AV services to individual collaboration spaces.

Q-SYS CAPACITIES

Total network I/O channels	@ 10 Gbps - 4096 × 4096 @ 1 Gbps - 512 × 512
Total network I/O streams	@ 10 Gbps - 1024 × 1024 @ 1 Gbps - 256 × 256
Dante network I/O	8 × 8 included (up to 512 × 512 with Software-based Dante feature license)
WAN / Media channel capacity	256 × 256
VoIP softphones	96
AEC channels (at 200 ms tail length)	256
Audio Recording / Playback	4 channels recording / 16 channels playback, [expandable up to 256 channels playback with optional multi track playback license (SLMTP-32) stackable up to 8x]
Media drive capacity	960 GB (at least 900 GB available for user media, or at least 1800 hours of uncompressed 48 kHz, 24 bit, mono WAV format audio files)

Hardware

Platform	Dell PowerEdge R570
Power	2x universal input, 1100 W PSU module
LAN	4x 10Gbps capable SFP+ ports (pre-installed 2x 10Gbps fiber / 2x 1Gbps copper RJ45; field-replaceable)
USB	2x USB-A
iDRAC	1x dedicated iDRAC v10 Ethernet port (rear) 1x iDRAC Direct (USB-C) port (front)
Ventilation	Forced air – front intake, rear exhaust

CONTROLS AND INDICATORS

Front	Power button / LED System ID button
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PACKAGING AND ACCESSORIES

Product dimensions (L x W x H)	32.09 × 19.0 × 3.42 in (815 × 482.0 × 86.8 mm), including rack ears and handles
Product weight	40.0 lbs (18.1 kg)
Shipping carton dimensions (L x W x H)	39.5 × 26.0 × 12.5 in (1003 × 660 × 318 mm)
Shipping weight	54.3 lbs (24.6 kg)
Included accessories	Rail kit Environmental and Regulatory information booklet 2x Region-specific power cords (for dual power supplies) Quick Start Guide

Miscellaneous

Line voltage	100-240 VAC, ~50/60 Hz
Current draw	~12 A @100-120 VAC, ~6.1 A @200-240 VAC
Operating temperature range	41° to 113° F (5° to 45° C)
Storage temperature	-40° to 158° F (-40° to +70° C)
BTU / hour	4100 BTU/Hr
Humidity	8% to 90%
Regulatory	FCC 47 CFR Part 15 Subpart B, Canada ICES-003, EN 55032, EN 55035, EU RoHS directive 2011/65/EU, WEEE directive 2012/19/EU, REACH, China RoHS GB/T26572, RCM, IEC/EN/UL 62368-1