

Q-SYS Server Core X20r

Network I/O processor

KEY FEATURES

- 384 x 384 networked audio channels (Q-LAN / AES67)
- 128x AEC channels @ 200 ms
- Includes 8 x 8 Software-based Dante channels (licensable up to 256 x 256)
- Dual Redundant, hot-swappable power supplies
- Supports up to twenty-four (24) Q-SYS NM-T1 tabletop microphones
- Up to 64 VoIP softphone instances
- 96 x 96 Media / WAN streaming capacity
- 16 multitrack playback channels (up to 256 with optional stackable feature license)
- 4 multitrack record channels
- Two (2) gigabit Ethernet ports for redundant networked audio
- Two (2) independent, gigabit auxiliary Ethernet ports for segregation of network services such as VoIP, SNMP, LLDP, LDAP and WAN Media streaming
- Onboard 480 GB media drive
- 1 RU form factor



The Server Core X20r combines the Q-SYS Full Stack AV Platform with enterprise-grade Dell server hardware to deliver a flexible and scalable audio, video and control solution for larger scale applications in corporate, higher ed, hospitality, entertainment and beyond. It enables applications requiring increased processing capabilities and network channel capacity by serving as a central processor and efficiently distributing network I/O to where it is needed most

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 X20r offers 2x the DSP processing power of the Server Core X10 (driven in part by its Dell server hardware) to support 384 x 384 network I/O capacity (including up to 256 x 256 Dante network audio capacity) 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 offer unique flexibility to manage any processing topology, from the building or venue-wide AV services to individual collaboration spaces.

Q-SYS CAPACITIES

Network audio I/O	384 × 384
Dante network I/O	8 × 8 included (up to 256 × 256 with Software-based Dante feature license)
WAN / Media channel capacity	96 × 96
VoIP softphones	64
AEC channels (at 200 ms tail length)	128
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	480 GB (at least 400 GB available for user media, or at least 800 hours of uncompressed 48 kHz, 24 bit, mono WAV format audio files)

Hardware

Platform	Dell R360XE
Power	2x universal input, 600 W PSU module
LAN	4x 1000 Mbps ports (2x Q-SYS Multimedia, 2x Q-SYS Aux)
RS232	1x DB-9 RS-232 port (rear panel), 16550-compliant
iDRAC	1x dedicated iDRAC v9 Ethernet port (rear) 1x iDRAC Direct (Micro-AB USB) port (front)
Ventilation	Forced air – front intake, rear exhaust

CONTROLS AND INDICATORS

Front	Blue Power LED Device reset button Front Panel LCD module displays IP address 2 navigation buttons (left, right) + 1 selection button to navigate between screens on the front display
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PACKAGING AND ACCESSORIES

Product dimensions (L x W x H)	23.6 × 19.0 × 1.68 in (599 × 482.0 × 42.8 mm), including rack ears and handles
Product weight	29.17 lb (13.23 kg)
Shipping carton dimensions (L x W x H)	36.0 × 23.5 × 10.0 in (914 × 597 × 254 mm)
Shipping weight	38.3 lb (17.4 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	2.0 A
Operating temperature range	0° C to +40° C
Storage temperature	-40° C to +70° C
BTU / hour	2250 BTU / Hr
Humidity	10% to 85%
Regulatory	FCC 47 CFR Part 15B Class B, IC ICES-003, EN55032, EN55035, EU RoHS directive 2011/65/EU, WEEE directive 2012/19/EU, REACH, China RoHS directive GB/T26572, RCM, IEC/EN/UL 62368-1:2018, IEC/EN/UL 60065:2014, CSA C22.2, EFUP 10

