Q-SYS Core 6000 CXR

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SOLAS COTS network I/O processor

KEY FEATURES

- Q-SYS OS paired with enterprise-grade, ruggedized Dell server hardware

- DNV Type Approved and SOLAS certified

- Low-profile, shallow depth 1U rack mount server form factor

- 256 x 256 networked audio channels uncompressed, real-time (Q-LAN / AES67); up to 512 x 512 with optional feature license

- 8 x 8 Dante audio channels (up to 512 x 512 with optional feature license)

- Deterministic and fixed analog audio input to output system latency of just 3.167 mS

- 80 x AEC processors (up to 160 with optoinal feature license)

- Q-SYS Core 6000 CXR scaling license enables increased processing power and expanded network audio I/O, Media/WAN streaming, and AEC capacity

- Up to 64 VoIP softphone instances

- Dual gigabit Ethernet ports for redundant networked audio

- Two independent, gigabit auxiliary Ethernet ports for segregation of network services such as VoIP, SNMP, LLDP, LDAP and WAN media streaming

- Internal, dual redundant and hot swappable AC power supply modules

- iDRAC monitoring for integration with IT monitoring systems

- Onboard SSD media drive

- 3 year standard warranty

The Q-SYS Core 6000 CXR is an industry-first solution that combines the processing capabilities of the Q-SYS realtime operating system with the compact, ruggedized, MIL-STD, NEBS and Marine-compliant Dell PowerEdge XR11 server.

The Q-SYS Core 6000 CXR is the only IT-grade solution that brings audio, video, and control processing into marine applications.

Designed for Q-SYS: The Q-SYS Core 6000 CXR is native to Q-SYS, a cloud-manageable audio, video and control **platform**, built to deliver scalable, flexible AV solutions into the future. At its foundation, the **Q-SYS OS** serves as the software foundation that manages your Q-SYS Core along with a multitude of other native **Q-SYS Products** in the platform. Additionally, its modern IT architecture and development tools of the **Q-SYS Platform** enables an entire **Ecosystem** of third-party devices developed by approved Q-SYS Partners, as well as a worldwide community of Q-SYS developers.

Q-SYS Core 6000 CXR

Hardware

Platform	Dell PowerEdge XR11
Power	2x hot-plug universal input, redundant 1400 W PSU modules, mixed mode
LAN	4x 1000 Mbps ports (2x Q-SYS Multimedia, 2x Q-SYS Aux)
iDRAC	1x dedicated 1000 Mbps iDRAC v9, enterprise license
RS232	1x DB-9 RS-232 port (rear panel), 16550-compliant
Ventilation	Forced air – front intake, rear exhaust
Additional info	Refer to Dell Specification Sheet and Technical Guide

Controls and Indicators

Front	Power button ID button and indicator (blinks when enabled from Q-SYS Designer Software)
Rear	ID button and indicator (blinks when enabled from Q-SYS Designer Software)

Q-SYS Capacities	Base features	with optional Q-SYS Core 6000 CXR Scaling license
DSP processing power (relative to Q-SYS Core Nano)	20x	40x
Network audio I/O (Q-LAN / AES67)	256 x 256	512 x 512
AEC channels (at 200 mS tail length)	80	160
WAN / media streaming channels	128 x 128	256 x 256
VoIP softphones	64	
Dante network I/O	8 x 8 included (up to 512 x 512 with Software-based Dante feature license); Dante utilization subtracts from Q-LAN capacity	
Audio recording / playback	4 channels recording / 16 channels playback, expandable up to 128 channels playback with optional license	
Media drive	960 GB (approximately 930 GB available for user media)	

Packaging and Accessories

Product dimensions (L x W x H)	**Core:** 18.77 x 19.00 x 1.68 in (476.8 x 482.6 x 42.7 mm) **AC Line FIlter:** 10.71 x 19.00 x 1.68 in (272.0 x 482.6 x 42.7 mm)
Product weight	**Core:** 23.6 lb (10.7 kg) **AC Line Filter:** 10.5 lb (4.8 kg)
Shipping carton dimensions (L x W x H)	**Core:** 31.0 x 23.4 x 10.1 in (787.4 x 594.4 x 256.5 mm) **AC Line Filter:** 23.1 x 15.1 x 6.1 in (586.7 x 383.5 x 154.9 mm)
Shipping weight	**Core:** 30.5 lb (13.8 kg) **AC Line Filter:** 12.5 lb (5.7 kg)
Included accessories	**Core:** MIL 901E and MIL 461G rugged kit 2x AC mains power cords Q-SYS Quick Start Guide **AC Line Filter:** Rack mount AC filter enclosure 2x IEC C14 to IEC C13 PDU power cords
Environmental and Safety	Visit The DELL Website For Information On Environmental Specifications And International Safety And Regulatory Compliance. https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance