

Q-SYS Core 110c

Cinema Processor

Features

- 128x128 Network Audio Channels
- 16x16 USB Audio Channels
- 24 Channels of Total Analog Audio
- 8 Configurable Flex Channels
- 16x16 GPIO Logic Ports
- 4 Channels of Routable AEC
- 1 VoIP line
- · Single POTS Telephone line
- 3 Year Warranty



Combined with DPA-Q amplifiers and DCS loudspeakers, the Q-SYS™ Cinema Core 110c provides a cost-effective solution for implementing Q-SYS in cinemas of all sizes. The continuity of the Q-SYS software based DSP platform is unique within the cinema industry and allows the Q-SYS Core 110c to leverage all the features that are available across the entire Q-SYS platform including complete audio signal processing for all loudspeakers with monitoring and control of all amplifiers, and control of many other devices and components within a cinema complex. It even provides many conferencing functions for using a cinema auditorium for alternate purposes, such as meetings and remote conferencing applications.

The Q-SYS Core 110c is a multipurpose software based digital audio signal

processor with a total of 8 balanced analog line level audio inputs and 8 balanced analog line level audio outputs. In addition to the fixed 8x8 analog audio I/O, the Core 110c features a software definable bank of 8 balanced analog audio Input/Output Flex Channels, a unique QSC innovation, where each channel can be independently configured during design or run time as either a microphone/line level input or a line level output. It also offers class leading 24 analog I/O density plus additional specialized I/O for conferencing applications such as VoIP, POTS, Internal Media Playback/Recording HDD and USB.

The Q-SYS Cinema Core 110c is ideal for multiple room 5.1/7.1 applications, or as the sole audio system processor for Dolby Atmos installations.

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Inputs	Q-SYS Core 110c
Input Frequency Response 20Hz to 20kHz @ +21dBu	+0.05 dB / -0.5 dB
Input THD+N @ 1kHz @ +21 dBu Sensitivity & +21 dBu input @ +21 dBu Sensitivity & +10 dBu input @ +10 dBu Sensitivity & +8 dBu input @ -10 dBu Sensitivity & -10.5 dBu input @ -39 dBu Sensitivity & -39.5 dBu input	< 0.1% < 0.0015% < 0.0007% < 0.0006% < 0.007%
EIN (no weighting, 20Hz to 20kHz)	< -121dB
Input to Input Crosstalk @1kHz	> 110dB typical, 90dB Max
Input Dynamic Range @ +21 dBu Sensitivity @ +10 dBu Sensitivity @ -10 dBu Sensitivity @ -39 dBu Sensitivity	> 109.5dB > 106.4dB > 104.6dB > 104.6dB
Input Common Mode Noise Rejection @ +21 dBu Sensitivity @ +10 dBu Sensitivity @ -10 dBu Sensitivity @ -39 dBu Sensitivity	50.7dB 56.5dB 73.2dB 63.2dB
Input Impedance (balanced)	5k ohms nominal
Input Sensitivity Range (1dB Steps)	-39 dBu min to +21 dBu max
Phantom Power	+48V DC, 10mA per input max
Unbalanced Input Signal Level	+8 dBu max
Sampling Rate	48kHz
A/D – D/A Converters	24-bit
Outputs	
Output Frequency Response 20Hz to 20kHz @ all settings	+0.2 / -0.5 dB
Output THD	0.003%, +10 dBu max output level
Output Crosstalk @1kHz	> 100dB typical, 90dB max
Output Dynamic Range	> 108dB
Output Impedance (balanced)	220 ohms
Output Level Range: (1dB Steps)	-39 dBu min to +21 dBu max

USB Inputs & Outputs

USB B Bit Depth Number of Channels Sample Rate	16-bit up to 16x16 48kHz
Power Consumption	60 watts, typical, 120 watts max
BTU/Heat load:	205 BTU/Hour
Compliance	FCC Part 15B (USA), FCC part 68 / TIA-968-B (USA), JATE (Japan), AS/ACIF S002 (Australia), PTC200 (New Zealand), ES203 021 (Europe), ANATEL Resolution 473 (Brazil), NOM-151-SCTI (Mexico), PSTN01 (Taiwan), Industry Canada CS-03 (Canada), CE marked (Europe), UL and C-UL listed (USA & Canada), RCM (Australia), EAC (Eurasian Customs Union) & RoHS Directive (Europe)
Overall Dimensions/Weight	Device Height: 1.75 inches (44 mm) Device Width: 19.0 inches (483 mm) Device Depth: 11.12 inches (282.5 mm) Device Weight: 11 lbs. (5.0 kg) Shipping Height: 6.0 inches (152 mm) Shipping Width: 23 inches (584 mm) Shipping Depth: 14 inches (356 mm) Shipping Weight: 12.4 lbs. (5.6 kg)

Specifications subject to change without notice.



