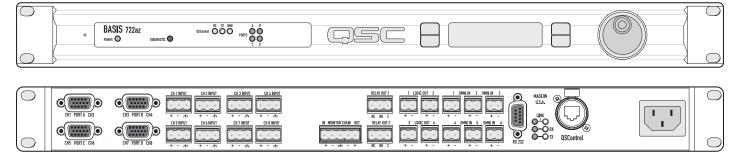


BASIS 722az

QSControl.net Digital System

THX



QSControl.net, QSC's next generation network audio system, achieves the seamless integration of the company's control, processing, and monitoring technologies. QSControl.net brings together QSC's digital, power amplification and loudspeaker products into a unified system that enables the user to administrate it all via a fully integrated graphical user interface. The new generation BASIS devices are designed to operate under the company's QSControl.net platform.

BASIS 722az

The BASIS platform meets the control, monitoring and processing needs of amplification and loudspeaker systems over an Ethernet network. The BASIS 722az units combine two distinct QSC technologies within a single hardware unit. Amplifier and loudspeaker control, monitoring and protection, and configurable DSP are seamlessly integrated into one powerful single RU package.

Through QSControl.net, QSC's BASIS and next-generation RAVE and DSP products can be networked together and controlled from a single software interface. In addition, multiple networked computers can be set up to control and monitor all of the units simultaneously.

Fixed Latency DSP

Users of most other configurable DSP systems are familiar with a variable latency inherent in the processing configuration. Add more processing blocks and you also add delay, whether you want it or not. QSC's DSP engine is unique in having a short and fixed processing latency through the DSP subsystem. When the A/D and D/A converters are included, the total analog-to-analog latency of a single unit is a negligible 2.354 milliseconds. QSC's fixed latency DSP is configurable DSP that stays fast and predictable from one configuration to the next.

For more information, visit www.qscontrol.net

Inputs	DSP	Outputs	
Analog		DataPort	
8 line level	24 x 24	4(8 channels)	

Features

- · Amplifier and loudspeaker control, monitoring and protection
- · Configurable DSP functions and signal paths
- · Fixed latency DSP engine
- Ethernet controllable
- · Each unit can store eight design configurations that can be changed on the fly
- Snapshots can recall config or block and/or parameter settings
- THX[™] approved for professional cinema applications

DSP functions include, but are not limited to:

- Matrix mixer any size, up to 24 x 24
- Automixers gain sharing
- Routers any size, up to 24 x 24
- · Gain controls any channel count, up to 24
- Graphic equalizers
- Filters high-pass, low-pass, all-pass, shelf, parametric, parametric shelf, Butterworth high and low-pass, Linkwitz-Riley high and low-pass, Bessel-Thomson high and low-pass
- Crossovers Linkwitz-Riley, Butterworth, Bessel-Thomson in-phase, Bessel-Thomson symmetrical, 2-way, 3-way, and 4-way general purpose adjustable
- · Compressors, peak limiters, AGC's, gates, dynamics processor
- Duckers up to 8 channels, up to 60 seconds fade in and fade out times, priority mix
- · Pink noise, white noise, sine generators
- Delays
- Macros user-definable custom blocks with password protection

QSC and the QSC logo are registered trademarks of QSC Audio Products Inc. in the U.S. Patent and Trademark office and other countries. THX is a trademark of THX Ltd. All other trademarks are the property of their respective owners

BASIS 722az

PERFORMANCE						
Dynamic Range (AES-17, -60 dB method, all sensitivities)	In	Out	Thru			
Unweighted	> 115 dB	> 112 dB	110 dB			
A weighted	> 118 dB	> 115 dB	113 dB			
Distortion (20 Hz – 20 kHz, all sensitivities) +4 dBu (maximum)		< 0.009% THD+N	< 0.009% THD+N			
2 dB below clip (maximum)	< 0.009% THD+N < 0.009% THD+N	< 0.009% THD+N < 0.009% THD+N	< 0.009% THD+N			
Crosstalk (20 Hz – 20 kHz)	< 0.005% HID H	< 0.005% HID H	< 0.005% HID H			
Inter-channel (maximum)	> 75 dB					
Inter-channel (typical)	> 90 dB					
Intra-channel (maximum)	> 85 dB					
Intra-channel (typical) Frequency Response	> 100 dB					
20 Hz – 20 kHz (maximum)	+/- 0.5 dB					
20 Hz - 20 kHz (typical)	+/- 0.2 dB					
Audio Converters	24 bit, 48 kHz, in and out					
Mute	Infinite attenuation					
Delay	2354 milliceconds (default group delay)					
INPUTS/OUTPUTS	g input through full DSP chain to analog output 2.354 milliseconds (default group delay)					
Program Inputs	8 inputs					
Connector type		style") detachable terminal blocks				
Туре						
	Grounding All shield terminals connected to chassis					
Pinout Input Impedance	1:+ / 2:- / 3:CHASSIS GND Balanced: 10k ohms / Unbalance	d: 10k ohms				
Common-mode Rejection		20 Hz - 20 kHz (minimum): > 54 dB / 20 Hz - 20 kHz (typical): > 60 dB				
Input Sensitivities (variable)		3, 21.3, 27.3 / dBV: 3.5, 9.5, 19.1, 25.1				
Program Outputs	Program Outputs 8 outputs					
Connector Type 4 HD-15 DataPort connections						
Cable Type Available "Stock" Lengths	QSC DataPort cable, QSC p-n DPC-x ("x" designates cable length in feet) 1, 2, 3, 4, 5, 6, 10, and 20 ft., custom lengths available					
Maximum Qualified Length		ble only / Non QSC cable limited to 6	5 ft. (audio only)			
Monitor						
Control Room Foldback Monitoring						
Connector type		o style") detachable terminal blocks				
Pinout Tap Points		IS GND / 4:-(output) / 5:+(output) ut / 8 amplifier (pre-, post-, amplifier)	software selectable			
Monitor Input	o memarinputy o memaroup	at / o ampliner (pre , post , ampliner)				
Monitor Signal (unit off)	Unity gain connection, relay bypa	ISS				
Maximum Level	+21 dBu					
Impedance (nominal)	10k ohms					
CMRR, 20 Hz – 20 kHz Monitor Output	> 54 dB					
Monitor	Sum of monitor input and signal	from internal monitor tap point(s)				
Frequency Response (20 Hz – 20 kHz)	+/- 0.5 dB					
Distortion (20 Hz – 20 kHz)	< 0.05% at +4 dBu					
Noise Floor	> 90 dB					
Output Impedance (nominal) Output Load (minimum)	100Ω 600Ω					
Monitor Level	00012					
Control Range (nominal)	0 dB to -95.5 dB in 0.5 dB steps					
CONTROL INPUTS/OUTOUTS						
Relay Outputs Connector Type	2 discrete floating relay switch ou	tputs o style") detachable terminal blocks				
Configuration	Electromechanical relay	Style) detachable terminar blocks				
Pinout	1:NC / 2:NO / 3:COM					
Switching Capacity (nominal)	1A 30 VDC					
Logic Outputs	4 discrete outputs	o chulo") dotachable terminal hll				
Connector Type Configuration	2-pin "phoenix style" (a.k.a. "euro Single-ended, TTL compatible	o style") detachable terminal blocks				
Pinout	1:+(Signal) / 2:-(CHASSIS GND)					
Omni Inputs		ltage control or passive resistance				
Connector Type		o style") detachable terminal blocks				
Configuration	Single-ended, ground referenced					
Pinout Normal Operating Range	Pinout 1:+(Signal) / 2:-(CHASSIS GND) Normal Operating Range Reads signals between 0-5 V nominally					
Potentiometer Operation						
Voltage Tolerance	+/- 48 V					
Current Output	0.5 mA with 10k pot (for passive					
RS-232 Port	Female DB9 connector (setup an					
QSControl Port Neutrik Ethercon RJ45 ruggedized data connector Indicators						
QSControl Status	Yellow Link, Tx, Rx, front panel /	Green Link, Tx, Rx, rear panel				
Power	Blue, front panel	, , , F				
Diagnostic	Red, front panel					
DataPort Status (port)	Tri-state (red, green, yellow), from					
LCD Data Display	2 line x 16 character, backlit, fron	i pariel				

Specifications subject to change without notice.

