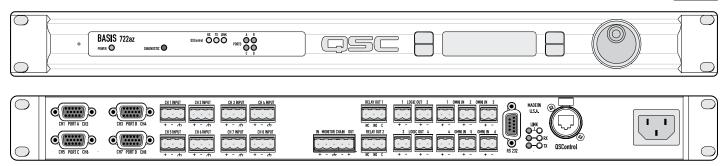


BASIS 722az

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

THX is a trademark of THX Ltd.

PEDEGRAMANCE						
PERFORMANCE	L.	0.4	Th			
Dynamic Range (AES-17, -60 dB method, all sensitivities)	In > 115 dp	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	< 0.009% THD+N			
2 dB below clip (maximum)	< 0.009% THD+N	< 0.009% THD+N	< 0.009% THD+N			
Crosstalk (20 Hz – 20 kHz)	15					
Inter-channel (maximum)	> 75 dB					
Inter-channel (typical)	> 90 dB					
Intra-channel (maximum)	> 85 dB					
Intra-channel (typical)	> 100 dB					
Frequency Response						
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						
Analog input through full DSP chain to analog output	2.354 milliseconds (default	group delay)				
INPUTS/OUTPUTS —	•	<u> </u>				
Program Inputs	8 inputs					
Connector type	3-pin "phoenix style" (a.k.a	. "euro style") detachable terminal blo	ocks			
Туре	Electrically balanced					
Grounding		All shield terminals connected to chassis				
Pinout	1:+ / 2:- / 3:CHASSIS GND					
Input Impedance		Balanced: 10k ohms / Unbalanced: 10k ohms				
Common-mode Rejection	20 Hz - 20 kHz (minimum): > 54 dB / 20 Hz - 20 kHz (typical): > 60 dB					
Input Sensitivities (variable)	,	, (11 /				
Program Outputs	Vrms: 1.5, 3, 9, 18 / dBu: 5.7, 11.8, 21.3, 27.3 / dBV: 3.5, 9.5, 19.1, 25.1 8 outputs					
Connector Type	4 HD-15 DataPort connections					
Cable Type	QSC DataPort collinections QSC DataPort cable, QSC p-n DPC-x ("x" designates cable length in feet)					
Available "Stock" Lengths	1, 2, 3, 4, 5, 6, 10, and 20 ft., custom lengths available					
Maximum Qualified Length		1, 2, 3, 4, 3, 6, 10, and 20 it., custom lengths available 328 ft. (100 m) using QSC DP cable only / Non QSC cable limited to 6 ft. (audio only)				
MONITOR —	320 12 (100 111) 43118 430	br cable only / Non Que cable innic	ta to one (addio only)			
Control Room Foldback Monitoring						
Connector type	5-nin "nhoenix style" (a k a	. "euro style") detachable terminal blo	ncks			
Pinout		CHASSIS GND / 4:-(output) / 5:+(outp				
Tap Points		output / 8 amplifier (pre-, post-, amp				
Monitor Input	o internal input / o internal	output / 8 ampililer (pre-, post-, amp	officer) software selectable			
	Unity gain connection, rela	hypacs				
Monitor Signal (unit off)	Unity gain connection, rela +21 dBu	у руразз				
Maximum Level						
Impedance (nominal)	10k ohms					
CMRR, 20 Hz – 20 kHz	> 54 dB					
Monitor Output	C		4/4			
Monitor		signal from internal monitor tap poin	I(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)	100Ω					
Output Load (minimum)	600Ω					
Monitor Level						
Control Range (nominal)	0 dB to -95.5 dB in 0.5 dB	steps				
CONTROL INPUTS/OUTOUTS	* P					
Relay Outputs	2 discrete floating relay swi					
Connector Type		. "euro style") detachable terminal blo	ocks			
Configuration	Electromechanical relay					
Pinout	1:NC / 2:NO / 3:COM					
Switching Capacity (nominal)	1A 30 VDC					
Logic Outputs	4 discrete outputs					
Connector Type		. "euro style") detachable terminal blo	ocks			
Configuration	Single-ended, TTL compatil	ole				
Pinout	1:+(Signal) / 2:-(CHASSIS (
Omni Inputs	6 discrete inputs for TTL lo	gic, voltage control or passive resistar	ice			
Connector Type	2-pin "phoenix style" (a.k.a	. "euro style") detachable terminal blo	ocks			
Configuration	Single-ended, ground refer	enced				
Pinout	1:+(Signal) / 2:-(CHASSIS (GND)				
Normal Operating Range	Reads signals between 0-5					
Potentiometer Operation	Use 10k ohms for full range					
Voltage Tolerance	+/- 48 V	-				
Current Output	0.5 mA with 10k pot (for pa	assive resistive controls)				
RS-232 Port		sup and diagnostics purposes only)				
QSControl Port	Neutrik Ethercon RJ45 rugg					
Indicators	TVEGGIN ZUICICOTI 1073 TUSS	scarzed data connection				
QSControl Status	Vellow Link Tv Dv front no	nel / Green Link, Tx, Rx, rear panel				
Power	Blue, front panel	ner, Green Eink, 1x, 1xx, teat patiet				
Powei Diagnostic						
LAGRIUNII	Red. front panel					



Diagnostic
DataPort Status (port)
LCD Data Display

Red, front panel

Tri-state (red, green, yellow), front panel 2 line x 16 character, backlit, front panel