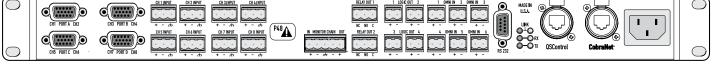


BASIS 922uz

QSControl.net Digital System

THX





QSControl.net, QSC's next generation network audio system, achieves the seamless integration of the company's signal transport, 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 922uz

The BASIS platform meets the control, monitoring, signal transport and processing needs of amplification and loudspeaker systems over an Ethernet network. The BASIS 922uz units combine three distinct QSC technologies within a single hardware unit. Amplifier and loudspeaker control, monitoring and protection, configurable DSP, and CobraNet™ audio transport 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

CobraNet is a trademark of Cirrus Logic, Inc. THX is a trademark of THX Ltd

inputs		DSP	Outp	นเร
Analog	CobraNet		DataPort	CobraNet
8 universal mic/line	16 of 32	24 x 24	4(8 channels)	32

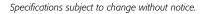
Features

- · Universal inputs mic/line with pre-amps and phantom power
- · Amplifier and loudspeaker control, monitoring and protection
- · Configurable DSP functions and signal paths
- · Fixed latency DSP engine
- Ethernet controllable
- · CobraNet audio transport with new intuitive GUI
- Two Ethernet ports CobraNet and control can be run over a single cable or be divided between the two ports. The CobraNet port is 100Base-T. The control port is 10Base-T
- · 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

DAJIJ JEEUL				Specifications
PERFORMANCE Dynamic Range (AES-17, -60 dB method, all sensitivities)	In > 110 dB	Out	Thru	
Unweighted A weighted Distortion (20 Hz – 20 kHz, all sensitivities)	> 110 dB > 113 dB	> 112 dB > 115 dB	108 dB 111 dB	
Gain = 0 - 30 dB Gain > 30 dB	< 0.008% THD+N < 0.05% THD+N	< 0.009% THD+N < 0.009% THD+N	< 0.008% THD+N < 0.05% THD+N	
Crosstalk (20 Hz – 20 kHz) Inter-channel (maximum)	> 75 dB			
Inter-channel (typical) Intra-channel (maximum)	> 90 dB > 85 dB			
Intra-channel (typical) Frequency Response	> 100 dB			
20 Hz – 20 kHz (maximum) 20 Hz – 20 kHz (typical)	+/- 0.5 dB +/- 0.2 dB			
Audio Converters Mute	24 bit, 48 kHz, in and out Infinite attenuation			
BASIS to Network	Standard CobraNet™ later 7.104 milliseconds	ncy	Low latency 4.438 milliseconds	
Analog input through full DSP chain to CobraNet output Network to BASIS	6.313 milliseconds		3.646 milliseconds	
CobraNet input through full DSP chain to analog output BASIS to BASIS And a input through full DSP chain gives CobraNet patiently	8.083 milliseconds		5.417 milliseconds	
Analog input through full DSP chain, over CobraNet network, through full DSP chain, to analog outputs	2.754 115	1.1>		
BASIS in stand-alone mode Analog input through full DSP chain to analog outputs	2.354 milliseconds (default	group delay)		
INPUTS/OUTPUTS Program Inputs	8 inputs	"auro style") datachable terminal ble	ocks.	
Connector type Type Grounding	3-pin "phoenix style" (a.k.a. Electrically balanced All shield terminals connect	"euro style") detachable terminal blo	JUNS	
Pinout Input Impedance (nominal)	1:+ / 2:- / 3:CHASSIS GND Balanced: 6.81k ohms / Unl			
Common-mode Rejection E.I.N. (maximum)		: > 54 dB / 20 Hz - 20 kHz (typical):	: > 60 dB	
Input Sensitivities (variable) Phantom Power (per IEC 1938 [1996])		Bu: -62.2 to +26 dBu / dBV: -64.4 to	+23.7 dBV	
Program Outputs Connector Type	8 outputs 4 HD-15 DataPort connection			
Cable Type Available "Stock" Lengths		-n DPC-x ("x" designates cable length	n in feet)	
Maximum Qualified Length MONITOR	328 ft. (100 m) using QSC I	OP cable only / Non QSC cable limite	ed to 6 ft. (audio only)	
Control Room Foldback Monitoring Connector type	5-pin "phoenix style" (a.k.a.	"euro style") detachable terminal blo	ocks	
Pinout Tap Points	1:+(input) / 2:-(input) / 3:C	HASSIS GND / 4:-(output) / 5:+(output) output / 8 amplifier (pre-, post-, amp	out)	
Monitor İnput Monitor Signal (unit off)	Unity gain connection, relay	. ,	,	
Maximum Level Impedance (nominal)	+21 dBu 10k ohms			
CMRR, 20 Hz – 20 kHz Monitor Output	> 54 dB			
Monitor Frequency Response (20 Hz – 20 kHz)	+/- 0.5 dB	signal from internal monitor tap poin	t(s)	
Distortion (20 Hz – 20 kHz) Noise Floor	< 0.05% at +4 dBu > 90 dB			
Output Impedance (nominal) Output Load (minimum)	100Ω 600Ω			
Monitor Level Control Range (nominal)	0 dB to -95.5 dB in 0.5 dB s	steps		
CONTROL INPUTŠ/OUTOUTŚ Relay Outputs Connector Type	2 discrete floating relay swit	ch outputs "euro style") detachable terminal blo	neke	
Configuration Pinout	Electromechanical relay 1:NC / 2:NO / 3:COM	euro style) detachable terriinar bit	JCRS	
Switching Capacity (nominal) Logic Outputs	1A 30 VDC 4 discrete outputs			
Connector Type Configuration		"euro style") detachable terminal blo	ocks	
Pinout Omni Inputs	1:+(Signal) 2:-(CHASSIS		nce	
Connector Type Configuration	2-pin "phoenix style" (a.k.a. Single-ended, ground refere	"euro style") detachable terminal blo enced	ocks	
Pinout Normal Operating Range	1:+(Signal) / 2:-(CHASSIS C Reads signals between 0-5 \	iND)		
Potentiometer Operation Voltage Tolerance	Use 10k ohms for full range +/- 48 V			
Current Output RS-232 Port	0.5 mA with 10k pot (for pa Female DB9 connector (set	ssive resistive controls) up and diagnostics purposes only)		
QSControl Port CobraNet Port	Neutrik Ethercon RJ45 rugg Neutrik Ethercon RJ45 rugg	edized data connector		
Indicators QSControl Status	Yellow Link, Tx, Rx, front par	nel / Green Link, Tx, Rx, rear panel		
CobraNet Status Power	Yellow Link, Tx, Rx, front and Blue, front panel	d rear panel		
Diagnostic DataPort Status (port)	Red, front panel Tri-state (red, green, yellow)			
LCD Data Display Signal Presence	2 line x 16 character, backlit Tri-state (red, green, yellow)			





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