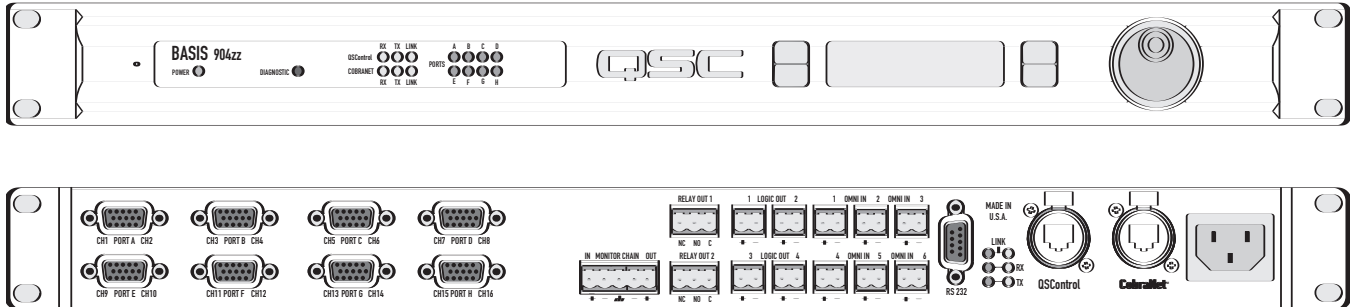


BASIS 904zz



QSCControl.net, QSC's next generation network audio system, achieves the seamless integration of the company's signal transport, control, processing, and monitoring technologies. QSCControl.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 QSCControl.net platform.

BASIS 904zz

The BASIS platform meets the control, monitoring, signal transport and processing needs of amplification and loudspeaker systems over an Ethernet network. The BASIS 904zz 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 QSCControl.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. QSC's fixed latency DSP is configurable DSP that stays fast and predictable from one configuration to the next.

For more information, log onto www.qscontrol.net

INPUTS	DSP	OUTPUTS	
CobraNet		DataPort	CobraNet
24 of 32	24 x 24	8 (16 channels)	32

Features

- 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
- 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
- Delays
- Macros – user-definable custom blocks

SPECIFICATIONS – BASIS 904zz

Performance	Dynamic range (AES-17, -60 dB method, all sensitivities) Unweighted > 112 dB A weighted > 115 dB	
	Distortion (20 Hz – 20 kHz, all sensitivities) +4 dBu (max) < 0.009% THD+N 2 dB below clip (max) < 0.009% THD+N	
I/O	Crosstalk (20 Hz – 20 kHz) Inter-channel (max) > 75 dB Inter-channel (typ) > 90 dB Intra-channel (max) > 85 dB Intra-channel (typ) > 100 dB	
	Frequency response 20 Hz – 20 kHz (max) +/- 0.5 dB 20 Hz – 20 kHz (typ) +/- 0.2 dB	
Monitor	Audio converters 24 bit, 48 kHz, (output)	
	Mute Infinite attenuation	
Control Inputs / Outputs	Delay Network to BASIS CobraNet input through full DSP chain to analog output	Standard CobraNet™ latency 6.313 milliseconds
		Low latency 3.646 milliseconds
Monitor	Program outputs Connector type 8 HD-15 DataPort connections Cable type 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 328 ft. (100 m) using QSC DP cable only. Non QSC cable limited to 6 ft. (audio only)	
	Control room foldback monitoring Connector type 5-pin "phoenix style" (a.k.a. "euro style") detachable terminal blocks Pinout 1:-(input) 2:-(input) 3:CHASSIS GND 4:-(output) 5:-(output) Tap points 8 internal input, 8 internal output, 8 amplifier (pre-, post-, amplifier) software selectable	
Control Inputs / Outputs	Relay outputs Connector type 2 discrete floating relay switch outputs Configuration 3-pin "phoenix style" (a.k.a. "euro style") detachable terminal blocks Pinout Electromechanical relay Switching capacity (nom) 1:NC 2:NO 3:COM 1A 30 VDC	
	Logic outputs Connector type 4 discrete outputs Configuration 2-pin "phoenix style" (a.k.a. "euro style") detachable terminal blocks Pinout Single-ended, TTL compatible 1:-(Signal) 2:-(CHASSIS GND)	
Control Inputs / Outputs	Omni inputs Connector type 6 discrete inputs for TTL logic, voltage control or passive resistance Configuration 2-pin "phoenix style" (a.k.a. "euro style") detachable terminal blocks Pinout Single-ended, ground referenced Normal operating range 1:-(Signal) 2:-(CHASSIS GND) Potentiometer operation Reads signals between 0-5 V nominally Voltage tolerance Use 10k ohms for full range Current output +/- 48 V 0.5 mA with 10k pot (for passive resistive controls)	
	RS-232 port Female DB9 connector QSC control port Neutrik Ethercon RJ45 ruggedized data connector CobraNet port Neutrik Ethercon RJ45 ruggedized data connector	
Control Inputs / Outputs	Indicators QSCControl status Yellow Link, Tx, Rx, front panel CobraNet status Green Link, Tx, Rx, rear panel Power Yellow Link, Tx, Rx, front and rear panel Diagnostic Blue, front panel DataPort status (port) Red, front panel LCD data display Tri-state (red, green, yellow), front panel 2 line x 16 character, backlit, front panel	