QSC's BASIS 922uz network platform brings together QSC's signal transport, control, processing, and monitoring technologies. It enables users to administrate all audio transport and processing needs from one configuration to the next.

**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.

**Inputs and Outputs**

<table>
<thead>
<tr>
<th>Inputs</th>
<th>DSP</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog</td>
<td>CobraNet</td>
<td>DataPort</td>
</tr>
<tr>
<td>8 universal mic/line</td>
<td>16 of 32</td>
<td>24 x 24</td>
</tr>
</tbody>
</table>

**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

For more information, log onto www.qscontrol.net
### Dynamic range (AES-17, -60 dB method, all sensitivities)

<table>
<thead>
<tr>
<th></th>
<th>IN</th>
<th>OUT</th>
<th>THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unweighted</td>
<td>&gt; 110 dB</td>
<td>&gt; 112 dB</td>
<td>TBD</td>
</tr>
<tr>
<td>A-weighted</td>
<td>&gt; 113 dB</td>
<td>&gt; 115 dB</td>
<td>TBD</td>
</tr>
</tbody>
</table>

### Distortion (20 Hz – 20 kHz, all sensitivities)

- Gain = 0 – 30 dB
- Gain > 30 dB

<table>
<thead>
<tr>
<th></th>
<th>IN</th>
<th>OUT</th>
<th>THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.003% THD+N</td>
<td></td>
<td></td>
<td>TBD</td>
</tr>
<tr>
<td>&lt; 0.05% THD+N</td>
<td></td>
<td></td>
<td>TBD</td>
</tr>
</tbody>
</table>

### Crosstalk (20 Hz – 20 kHz)

- Inter-channel (max)
- Inter-channel (typ)
- Intra-channel (max)
- Intra-channel (typ)

<table>
<thead>
<tr>
<th></th>
<th>IN</th>
<th>OUT</th>
<th>THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inter-channel (max)</td>
<td>&gt; 75 dB</td>
<td>&gt; 90 dB</td>
<td>&gt; 85 dB</td>
</tr>
<tr>
<td>Inter-channel (typ)</td>
<td>&gt; 75 dB</td>
<td>&gt; 90 dB</td>
<td>&gt; 85 dB</td>
</tr>
<tr>
<td>Intra-channel (max)</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Intra-channel (typ)</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>

### Frequency response

- 20 Hz – 20 kHz (max)
- 20 Hz – 20 kHz (typ)

<table>
<thead>
<tr>
<th></th>
<th>IN</th>
<th>OUT</th>
<th>THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 75 dB</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>&gt; 90 dB</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>&gt; 85 dB</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>&gt; 100 dB</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>

### Audio converters

- 24 bit, 48 kHz, in and out

### Monitor

#### Delay

- BASIS to Network
- Analog input through full DSP chain to CobraNet output
- 7.104 milliseconds
- 4.438 milliseconds
- Network to BASIS
- CobraNet input through full DSP chain to analog output
- 6.313 milliseconds
- 3.846 milliseconds
- BASIS to BASIS
- Analog input through full DSP chain, over CobraNet network, through full DSP chain, to analog outputs
- 8.083 milliseconds
- 5.417 milliseconds
- BASIS in stand-alone mode
- Analog input through full DSP chain to analog outputs
- 2.354 milliseconds

### Program inputs

- Connector type: 3-pin “phoenix style” (a.k.a. “euro style”) detachable terminal blocks
- Grounding: Electrically balanced
- All shield terminals connected to chassis
- Pinout: 1+ 2- 3CHASSIS GND
- Balanced: 10k ohms
- Unbalanced: 10k ohms
- Common-mode rejection
- 20 Hz – 20 kHz (min.): > 54 dB
- 20 Hz – 20 kHz (typ.): > 60 dB
- E.I.N. (max.)
- Phantom power per IEC 1930 [1996]
- 150 ohm, 30 dB: -124.5 dBu
- 150 ohm, 60 dB: -125.0 dBu
- Input sensitivities (variable)
- Vrms: 0.6 mV to 15.46 V
- dBu: -62.2 to +26 dBu
- dBV: -64.4 to +23.7 dBV
- Phantom power (per IEC 1930 [1996])
- +48 V (software selectable)

### Program outputs

- Connector type: 4 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
- Monitor signal (unit off)
- Unity gain connection, relay bypass
- Maximum level: +21 dBu
- Noise floor: > 90 dB
- Output impedance (nom) 100 ohms
- Output load (min): 600 ohms

### Monitor level

- Control range (nom): 0 dB to -95.5 dB in 0.5 dB steps

### Relay outputs

- Connector type: 2 discrete floating relay switch outputs
- Configuration: 3-pin “phoenix style” (a.k.a. “euro style”) detachable terminal blocks
- 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
- Single-ended, TTL compatible
- 1: (Signal) 2:(CHASSIS GND)
- 6 discrete inputs for TTL logic, voltage control or passive resistance
- 2-pin “phoenix style” (a.k.a. “euro style”) detachable terminal blocks
- Single-ended, ground referenced
- 1: (Signal) 2:(CHASSIS GND)
- Reads signals between 0-5 V nominally
- Use 10k ohms for full range
- +5 V
- 0.5 mA with 10k pot (for passive resistive controls)
- Female DB9 connector
- Neutrik Ethercon RJ45 ruggedized data connector

### 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
- Single-ended, ground referenced
- 1: (Signal) 2:(CHASSIS GND)
- Reads signals between 0-5 V nominally
- Use 10k ohms for full range
- +5 V
- 0.5 mA with 10k pot (for passive resistive controls)
- Female DB9 connector
- Neutrik Ethercon RJ45 ruggedized data connector

### RS-232 port

- QSCControl port
- Neutrik Ethercon RJ45 ruggedized data connector
- CobraNet port
- Neutrik Ethercon RJ45 ruggedized data connector

### Indicators

- QSCControl status
- CobraNet status
- Power
- Diagnostic
- DataPort status (port)
- LCD data display
- Signal presence

Specifications are subject to change without notice.