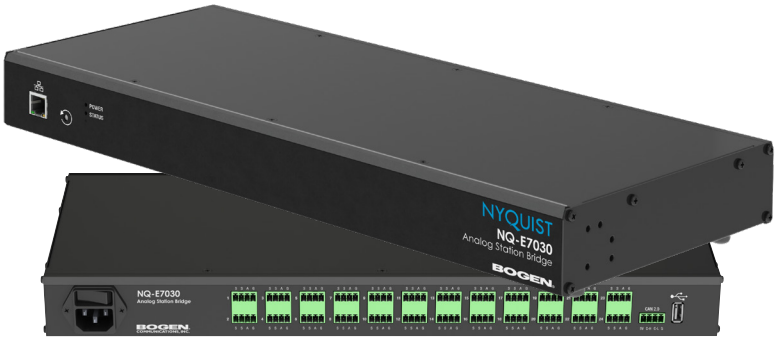
BOGEN

ANALOG STATION BRIDGE

Model NQ-E7030



DESCRIPTION

The **NQ-E7030 Analog Station Bridge** (ASB) makes it easy and cost-effective for customers with legacy paging and intercom systems to upgrade to E7000'S rich feature set and incredible control. The ASB allows the use of existing wiring infrastructure of Bogen Multicom and Quantum installations, as well as similar analog or hybrid paging/intercom systems. Each ASB supports up to 24 speakers and call switches, and 120W of embedded power is available to drive any combination of 25V speakers and horns.

FEATURES

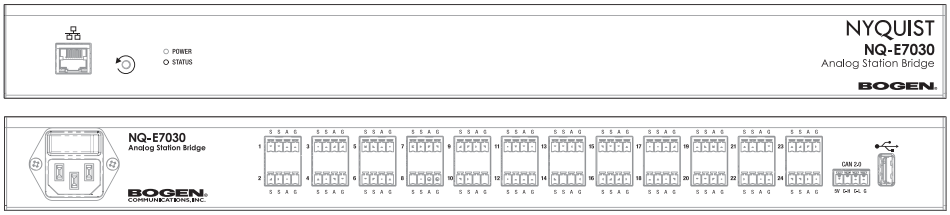
- **10/100 Ethernet**
- **24 station interface**
  - *Supports connections to as many as 24 individual 25V speakers*
- **24 dry contact closure-type analog Call Switch connections**
- **Half-duplex talkback using speaker as pickup**
- **CAN Bus 2.0 Interface for digital call switches and other accessory devices**
- **120W of embedded power shared across all 24 channels**
- **2 x RGB "full spectrum" LED status indicators**
- **USB 2.0 host port, type A connector (future use)**
- **Universal mains supply (100VAC – 240VAC)**
- **May be rack, wall, or shelf mounted: 17.5" W x 6.9" D x 1.7" H (2" H with rubber feet installed)**

A & E SPECIFICATIONS

The NQ-E7030 Nyquist Analog Station Bridge (ASB) allows facilities with existing Multicom, Quantum or other comparable intercom systems to upgrade to the Nyquist E7000 solution while leveraging a facility's existing 25V analog speakers and cable infrastructure. Each ASB provides 24 station ports for speakers and call switches, with 120 Watts of embedded power shared across all 24 channels. A single port maximum is 40W @ 25V RMS, not exceeding a total tap wattage of 120W @ 25V RMS for all 24 ports combined. The ASB is designed to drive any combination of 25V speakers and horns. Each of the 24 station ports contains a dry contact closure-type analog call switch connection. When placing an intercom call to a station, it operates in half-duplex mode, using the speaker as the talkback pickup. This facilitates the use of relatively inexpensive 25V speakers instead of costlier VoIP speakers. The ASB has one CAN Bus 2.0 Interface for NQ-E7020 Digital Call Switch support and other future accessory devices. The NQ-E7030 is equipped with two RGB full spectrum LED power and status indicators to convey the various states of the device (e.g., powered-on, registered, updating, etc.). The ASB shall be equipped with a USB 2.0 host port, Type-A connector for future feature capabilities. The NQ-E7030 shall be powered by an internal universal mains power supply that can operate between 85 VAC to 265 VAC 50/60 Hz. The Nyquist NQ-E7030 ASB shall be rack, wall, or shelf mountable and shall include the required mounting bracket hardware. Systems that don't provide these features are not considered equal.

POWERED BY NYQUIST

The **E7000 Series** is built upon Bogen's award-winning Nyquist software-based IP communications platform, which provides users with unparalleled flexibility and scalability, whatever their application.



TECHNICAL SPECIFICATIONS

	NQ-E7030
AC Input Voltage Range	100 VAC to 240 VAC 50/60 Hz
Maximum AC Current	3.2A
AC Power Connector	10A Line Cord: C14 IEC Inlet
Power Connector	2-Ch. @ 120W each @ 25VRMS
S/N Ratio (20k BW)	80dB
Power Output Bandwidth	20 Hz - 20 kHz < .1% THD+N
THD+N @ 1 kHz Rated Power	< .05% THD+Nt
Rated Load Impedance	8 ohms total across all 24 outputs
Frequency Response @ 1 Watt	20 Hz -20 kHz +/- 0.25 dB
Audio Amplifier Class of Operation	D
Input/Output Connectors	Twenty-four (24) 4-pin 3.5mm Phoenix Plugs/Headers 24 dry contact closure call switch inputs*** on Phoenix Plug Terminals marked 'G' & 'A' 24 analog speaker outputs on Phoenix Plug Terminals marked 'S' & 'S'; each output is rated at 40W max. @ 25VRMS *While the NQ-E7030 is CAT5 or better cable compatible, it is not advisable to use category wiring for two-way intercom stations in installations where Electromagnetic Field (EMF) interference is a possible concern. In such environments, it is recommended to use West Penn #357, Belden #8724, or equivalent cabling to protect against cross-talk and noise induced by EMF interference
Audio Talkback	Half-duplex operation using the analog speaker connections on Phoenix Plug Terminals marked 'S' & 'S'
CAN Bus Port**	5VDC; CH (CAN Hi); CL (CAN Low); G (Ground); Bus Speed 125 kbits/sec *Use Cat5 or equivalent cabling
USB Connector	USB 2.0 Type A *Use USB 2.0 Cable
Indicators	Power & Status LEDs (front) / Network LEDs (front)
Cooling	Convection
Operating Temperature Range	-15 C to +40 C
Protection	ESD, RF, DC, Low Frequency, Thermal, Low Impedance, Short Circuit, Clip Limiting
Networking	Cat5 or better 10/100 network connectivity to Bogen's Nyquist network *Use Cat5 or equivalent cabling
Certifications	CE and FCC Part 15b Class A: ICES-003, Issue 6: 2016; EN 55032:2012; EN 55035:2017; UL 62368-1
Product Weight	5.62 lb. / 2.549 kg
Physical Dimensions	17.63" W x 1.70" H x 7.32" D (Depth includes Phoenix connectors; width is without rack mount brackets attached; height excludes rubber mounting feet)

*** For connection to Bogen's NQ-E7020 Digital Call Switch
** Bogen CA-15C or equivalent
*Cable Requirement(s)

Limited Warranty, Exclusion of Certain Damages

The **NQ-E7030** is warranted to be free from defects in materials and workmanship for five (5) years from the date of sale to the original purchaser. Any part of the product covered by this warranty that, with normal installation and use, becomes defective (as confirmed by Bogen upon inspection) during the warranty period will be repaired or replaced by Bogen, at Bogen's option, with new or refurbished product, provided the product is shipped insured and prepaid to: Bogen Factory Service Department: 4570 Shelby Air Drive, Suite 11, Memphis, TN 38118, USA. Repaired or replacement product(s) will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW. Bogen's liability arising out of the manufacture, sale or supplying of products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. **IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES.** Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Products that are out of warranty will also be repaired by Bogen Factory Service Department -- same address as above or call 201-934-8500, at owner's expense. Returned products which do not qualify for warranty service, may be repaired or replaced at Bogen's option with a previously repaired or refurbished items. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All parts and labor charges as well as shipping charges will be at the owner's expense.

All returns require a Return Authorization number. For most efficient warranty or repair service, please include a description of the failure.

09/2017

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