

Bogen Nyquist 40W PoE++ Plenum-rated Integrated Amplifier Module (Model NQ-GA40P3)



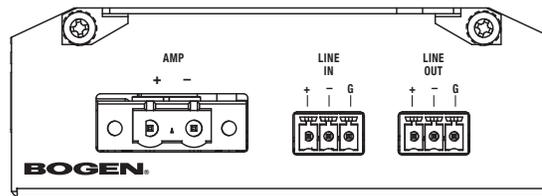
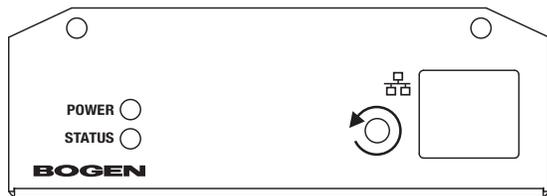
Description

The NQ-GA40P3 is a 40W plenum-rated, Class D, integrated amplifier module designed to operate over a 10/100 Ethernet network. This new low-impedance amplifier module fills out the Nyquist GA amplifier module product line, extending the power range to 40W, thus allowing customers to increase single-zone coverage for paging and music distribution as part of a Nyquist installation, or as a SIP and/or multicast endpoint on 3rd party systems when in Standalone Operation mode.

A PoE++ capable network switch provides power for the unit, or alternatively, a PoE power injector, such as Bogen's PI5660W PoEBT. When coupled with the NQ-GAXMR1 transformer, the NQ-GA40P3 will drive high-impedance 25V or 70V speaker networks, such as can be done with Bogen's CSD2X2-V2 drop-in ceiling tile speaker which contains a convenient mounting plate for the amplifier and transformer.

Key Features & Benefits

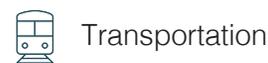
- ✓ **40W Audio Power:** An increase in power means higher audio output to drive larger Public Address speakers or horns, or drive more speakers when used with a distributed audio transformer such as the NQ-GAXMR1 module.
- ✓ **Can Support 25V/70V distributed sound systems** in conjunction with the NQ-GAXMR1 transformer module. Extended reach of the paging zone for greater area coverage with multiple speakers.
- ✓ **Plenum-rating** allows the amplifier module to be installed just about anywhere!
- ✓ **Power-over-Ethernet Plus (PoE++) 802.3bt compliant** Convenient installation using PoE++ switches (optional power injector available for use in non-PoE++ switch environments)
- ✓ **Balanced line input and output** Offers a balanced line output to drive auxiliary power amplifiers, as well as a balanced line input for auxiliary line-level analog audio input to either direct drive the amplifier module or serve as a audio source for audio distribution on Nyquist systems.



Technical Specifications

Power Output	40W @ 8 Ohms
S/N Ratio (20k BW)	80 db
Power Output Bandwidth	20 Hz - 20 kHz < .1% THD+N
THD+N @ 1 kHz Rated Power	<.05% THD+N
Rated Load Impedance	8 ohms
Frequency Response @ 1 Watt	20 Hz - 20 kHz +/-0.25 dB
Audio Amplifier Class of Operation	D
Pot+ (Power over Ethernet)	Class 3 device (RJ45)
Power Amplifier Output Connector	2 Pin 7.5mm Phoenix Plug/Header
Audio Line Level Output Connector	3-pin 3.5mm Phoenix Plug/Header
Audio Line Level Input Connector	3-pin 3.5mm Phoenix Plug/Header
Audio Line Level Input Sensitivity	Continuously variable from 2V to 0.1V RMS
Audio Line Level Output	2.2V RMS @ 10k Ohms (+27dB) Electronically Balanced
Indicators	Power & Status LEDs (front) / Network LEDs (front)
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
Certifications	Carries UL602638 Safety Mark
Product Weight	1.6 lbs
Physical Dimensions	9" L x 3.69" W x 1.30" H

Applications



A & E Specifications

The Nyquist plenum-rated amplifier shall be a model NQ-GA40P3 40-watt integrated amplifier and shall utilize UL 2043 plenum-rated packaging. The GA40P3 is an 802.11bt class 3 Type 3 4PPoE device and requires the correct PoE++ network switch or PoE++ power injector like the Bogen PI5660W. The amplifier shall provide a frequency response from 20-20 kHz +/- 0.25 dB at rated power. Distortion shall be less than 0.05% THD+N. The amplifier shall include GUI-based configuration. Outputs shall be provided for both 40W @ 8-ohm speaker connector or line level connector. The audio line level output shall be 2.2V RMS @10kΩ (+27 dB) electronically balanced. Systems that don't offer these capabilities shall not be considered equivalent.

LIMITED WARRANTY, EXCLUSION OF CERTAIN DAMAGES

Bogen NQ-GA40P3 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 item. 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.

07/2023