

## NQ-GA10P, NQ-GA10PV VoIP Intercom Module Installation and Use

The NQ-GA10P is a plenum rated Voice over Internet Protocol (VoIP) intercom module that is designed for flexible installation and mounting options.

The module features an integrated 10 watt power amplifier, an 8-ohm analog speaker connection, a dry-contact analog call switch input, a CAN Bus interface, and a Form C SPDT type 2-amp dry contact relay.



The NQ-GA10PV model also features an HDMI video output. Designed to run on a 10/100 Ethernet network, the NQ-GA10P and

the NQ-GA10PV are IEEE 802.3af compliant and can be powered using Power-Over-Ethernet (PoE), or if that is not available, it can be powered via an optional 48VDC 15W power adapter.

## Notice

Every effort was made to ensure that the information in this manual was complete and accurate at the time of printing, however, all information is subject to change.

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**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

**Avertissement:** pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil sous la pluie et l'humidité.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

L'appareil ne doit pas être exposé aux écoulements ou aux éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.

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This equipment is not suitable for use in locations where children are likely to be present.  
Equipment is intended for use only in a restricted access area.

## Important Safety Information

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Always comply with the following basic safety precautions when installing and using the unit:

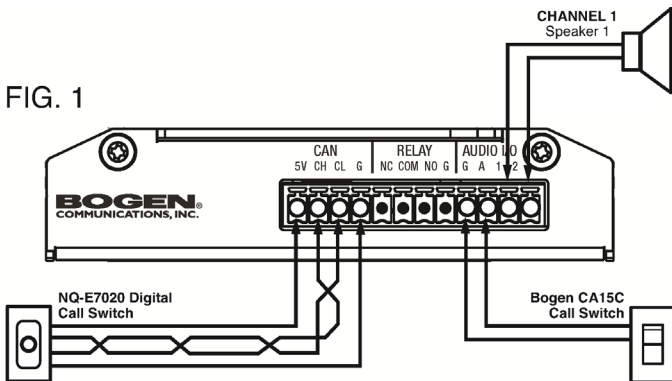
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with dry cloth.
6. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
7. Only use attachments/accessories that are specified by the manufacturer.
8. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply

cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## Installation

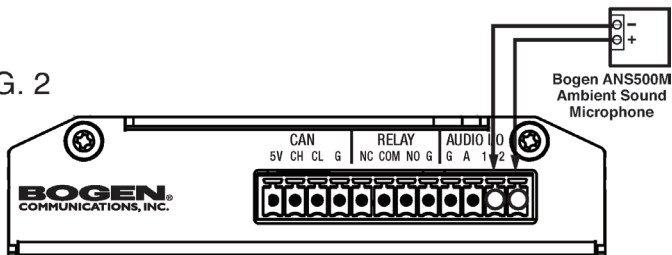
*To install the VoIP Intercom Module:*

1. Attach the desired speakers and their associated call switches to the module using the pluggable connectors provided, where the 1 and 2 terminals connect to the +/- speaker wires and the "G" and "A" terminals connect to the associated wires from the analog call switch. (See Fig. 1.)



2. If using the NQ-GA10P/PV in an intercom talkback application, connect the speaker to the power amplifier's 1 and 2 output and use either the NQ-E7020 or the CA-15C. (See Fig. 1.)
3. If the CAN Bus is to be used, ensure CAN\_H and CAN\_L use (Cat5 10/100) twisted pair cable.
4. Connect a Cat5 type cable into the module's Ethernet port and ensure the other end of the cable is correctly connected to your network.
5. To connect a device to the Form C dry contact 2A relay, do one of the following:
  - a. If the device is configured as normally open, connect to the device using the NO and COM terminals.
  - b. If the device is configured as normally closed, connect to the device using the NC and COM terminals.

FIG. 2

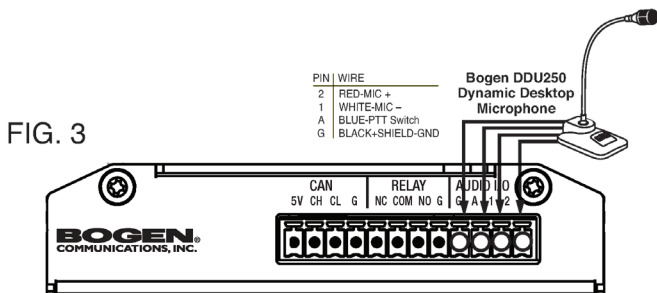


6. If PoE is not available and you are using a 48V power supply, connect the Bogen PS48 15W power supply to the module.
7. If using the Bogen ANS500M ambient sound microphone, connect (-) on the ANS500M to Pin 1 and (+) on the ANS500M to Pin 2. (See Fig. 2.)

Further configuration is done through the Nyquist Admin web-based user interface (UI). See the *Nyquist System Administrator Manual*.

8. If using the Bogen DDRU250 desktop microphone as a Push-to-Talk device, connect the microphone as shown in Fig. 3.

Further configuration is done through the Nyquist Admin web-based user interface (UI). See the *Nyquist System Administrator Manual*.



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## Viewing and Understanding LEDs

Two LEDs appear on the front of the module. One is labeled POWER and appears as solid red during initial power up, flashes green during a boot sequence, and appears solid green when fully booted.



The STATUS LED uses the following indicators to provide information about the module:

- Flashing red – No network connection found.
- Solid blue – The module is in an uninitialized state and is not associated to a Nyquist server. (The server may be in a discovery mode.)
- Solid red – The module needs to be rebooted or reset so that the Nyquist application can resume.
- Flashing blue – The module is updating.
- Solid green – The module is registered to a Nyquist server and is in normal operation.
- Flashing green – The module has an IP address but is not registered with the Nyquist server.

## Using the Reset Button

The Reset button allows you to restart the module or to reset the module's configuration settings to the factory default settings.

For more information about resetting configuration settings, refer to the *Nyquist NQ-GA10P, NQ-GA10PV Configuration Manual*.



## Temperature Indicator

In addition to the LEDs that appear on the actual appliance, a separate temperature status indicator appears on the module's web-based user interface. For more information, refer to the *Nyquist NQ-GA10P, NQ-GA10PV Configuration Manual*.



## Compliance

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Limited Warranty, Exclusion of Certain Damages

The NQ-GA10P and NQ-GA10PV are 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.

8/2019