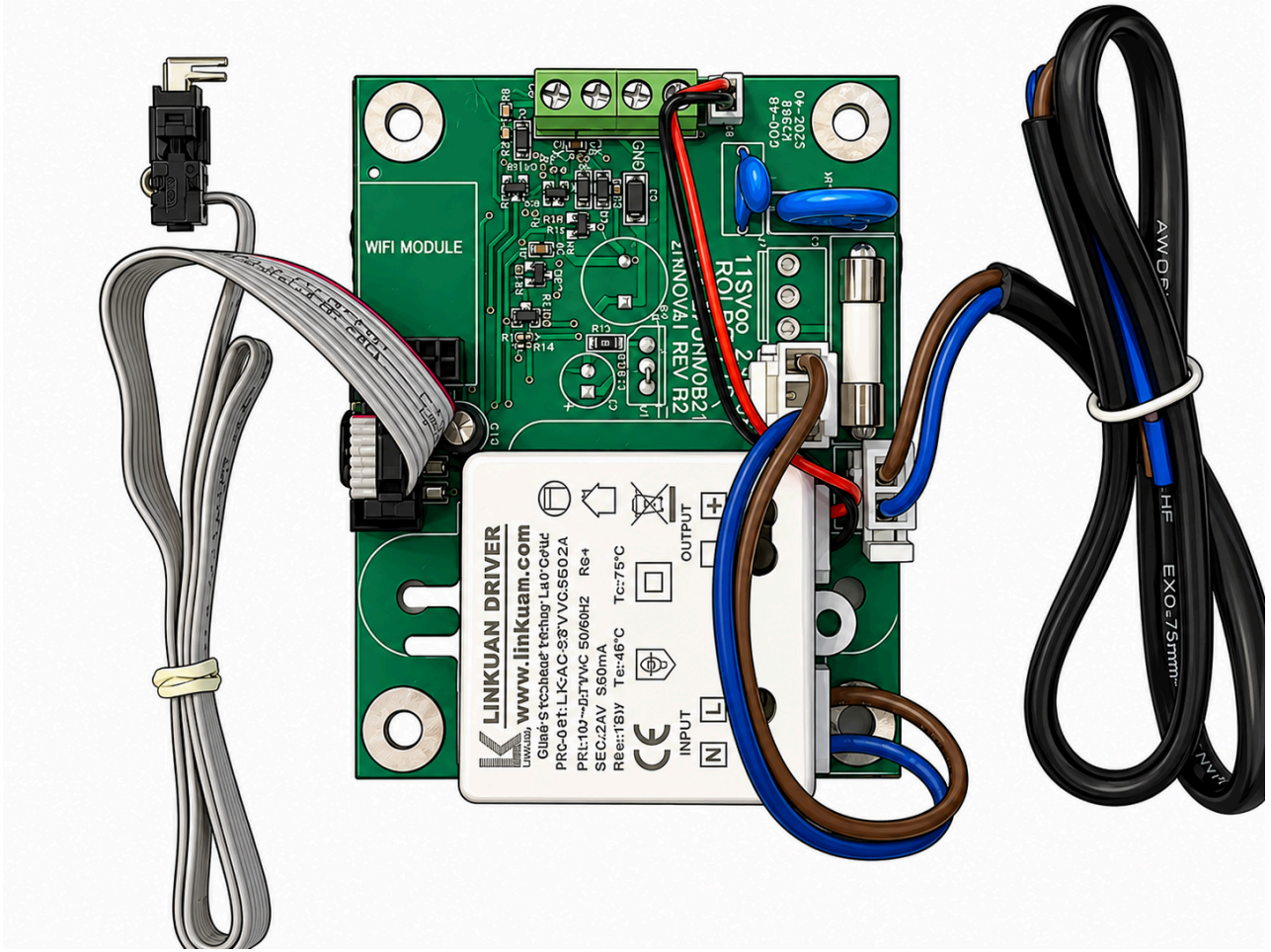
AIO® GWB20 Gateway Control Board

Product Data Sheet



innova

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DISCLAIMER

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⚠ WARNING

Only qualified professionals should install and service this equipment. Improper installation or modifications by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the installation guide and on the labels attached to the equipment.

REVISION HISTORY

Rev	Date	Revised By	Changes
A	2026-04-29	Leah Kuber	Correct specifications and update to current document format

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1. AIO® GWB20 GATEWAY CONTROL BOARD

The GWB20 Gateway Control Board integrates and manages operations for AIO® Heat Pumps, providing an interface between AIO® units and INNOVA wall thermostat controllers.

Note: This gateway board must be field-installed and connected inside the AIO® unit by an electrician or technician. Installation takes approximately 15 minutes.

1.1 AIO® GWB20 Submittal

Job	Reference
Construction	Location
Approval	Quote Number
Engineer	Date
Drawing Number	P.O. Number:
Submitted To	Submitted By:

2. SUPPORTED ELEMENTS AND ACCESSORIES

- **Thermostats:** Supports the INNOVA Basic Touch Controller (LCTH20) and the INNOVA Advanced Touch Controller (TFTH20).
- **Wi-Fi connectivity:** Enables control via an additional module (not included) that is connected to a dedicated app for smartphones, tablets, and computers.

3. SPECIFICATIONS

- **Power supply:** Universal input (115V, 230V, and 277V nominal), 50/60 Hz; automatic voltage detection.
- **Power consumption:** 5.6 watts.
- **Operating environment:** Functional between 40°F (5.3°C) and 158°F (70°C).
- **Storage environment:** Stable between 0°F (-18°C) and 158°F (70°C) at 90% relative humidity (non-condensing).
- **Thermostat connections:** Connects to INNOVA LTCH20/TFTH20 controllers via four screw terminals.
- **Fuse protection:** 2-amp ceramic fuse.
- **Dimensions:** 3.4" (86.4 mm) x 2.7" (68.6 mm) x 1" (25.4 mm).
- **Warranty:** Two-year limited warranty.

4. WIRING AND INSTALLATION

The GWB20 control board includes two cables that are pre-attached to the gateway board:

- **Communication Cable (flat ribbon gray):** For connecting the GWB20 board to the air conditioning control system in compatible AIO® units.
- **Power Cable (black):** For supplying power from the unit.

4.1 AIO® unit compatibility

The GWB20 gateway can be installed in the following AIO® units:

- AIO® Wall Mounted Standard/Pro (Gen 1 only)
- AIO® Ceiling Ducted (with and without ERV)
- AIO® Ceiling Suspended (with and without ERV option)
- AIO® Vertical Stack
- AIO® Vertical Stack XL

The GWB20 gateway is not compatible with Wall Mounted (Gen 2 or 3) units.

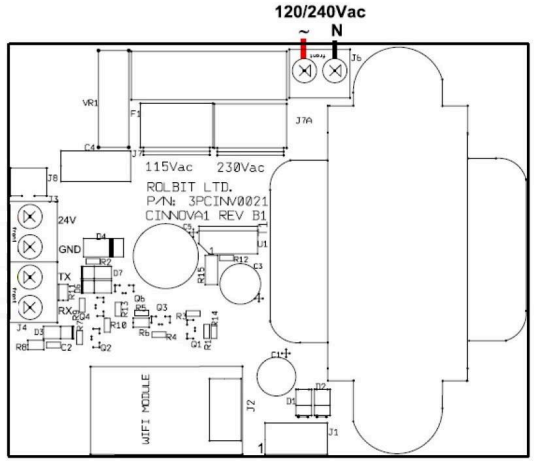
4.2 Installation instructions:

- The installer must connect the communication cable to the AIO® unit's controller panel.
- In some models, installers must connect the power cable from the TPG015 board to the terminals on the unit's electrical panel.
- In newer models, the power cable is pre-installed within the AIO® unit and only needs to be connected to the gateway. In this case, the gateway's power cable is not used.

For complete installation instructions for each unit type, refer to the AIO® GWB20 Gateway Installation Guide.

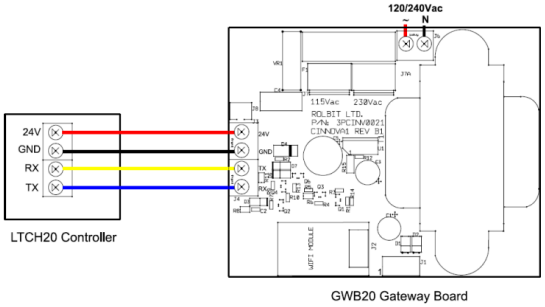
5. LAYOUT AND WIRING

Figure 1. GWB20 Gateway Control Board Layout



GWB20 Gateway Board

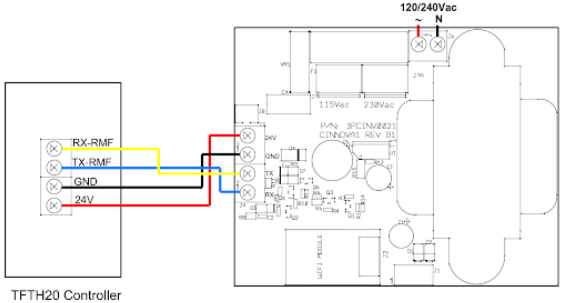
Figure 2. GWB20 Gateway Connections to LTCH20 Controller



LTCH20 Controller

GWB20 Gateway Board

Figure 3. GWB20 Gateway Connections to TFTH20 Controller



TFTH20 Controller

GWB20 Gateway Board

With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.

innova.co | **USA:** 216-710-1000 **Canada:** 416-739-1000

MADE IN ITALY

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