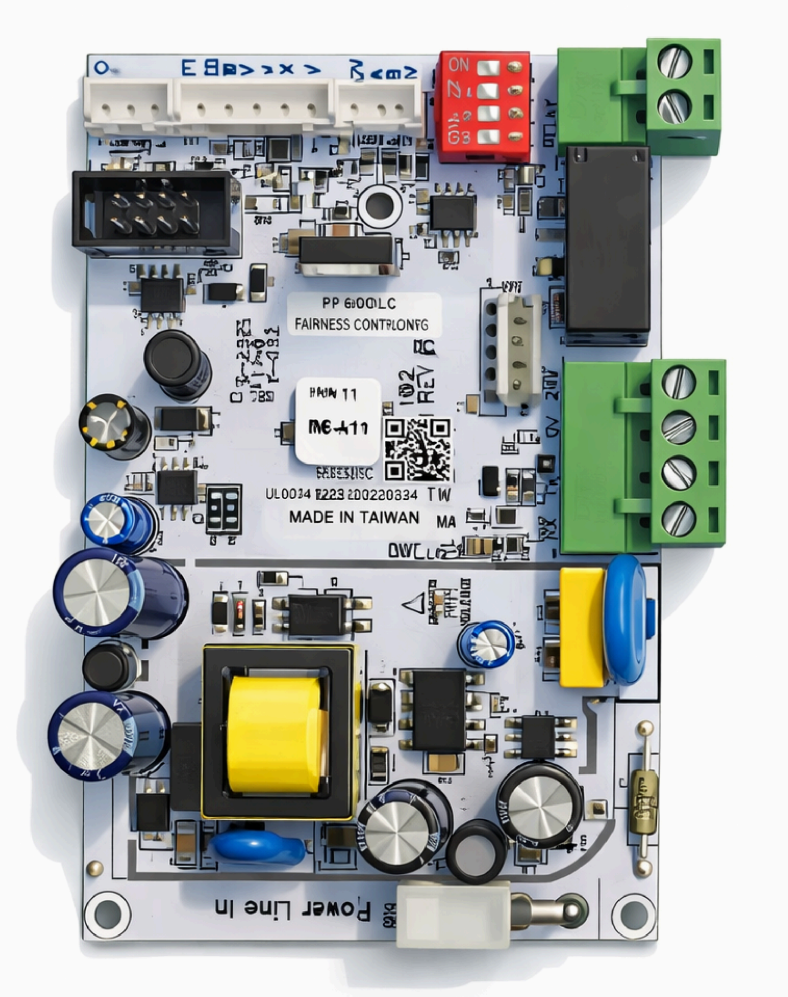
AIO® GWN Gateway Control Board

Product Data Sheet



innova

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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.

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1. AIO® GWN GATEWAY CONTROL BOARD

The GWN Gateway Control Board integrates and manages operations for AIO® Heat Pumps, supporting Wall Mounted and other models. This gateway facilitates seamless communication with INNOVA and Verdant controllers and additional accessories, ensuring optimal system control and energy efficiency.

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

1.1 AIO® GWN 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 INNOVA LTCH20 and TFTH20 thermostats/controllers and Verdant thermostats.
- **Wi-Fi connectivity:** Enables control via an additional module (not included) that is connected to a dedicated app for mobile devices.
- **Dual power sources:** Includes a relay contact that enables switching between one power source for heating (when the relay is closed) and a second power source for cooling (when the relay is open).

For more information about connecting the GWN gateway to these elements, refer to the AIO GWN Gateway for AIO Heat Pumps Installation Guide.

3. SPECIFICATIONS

- **Power supply:** Universal input (115V, 230V, and 277V nominal), 50/60 Hz; automatic voltage detection.
- **Power consumption:** 3.2 watts.
- **Operating environment:** Functional between 40°F (4.4°C) and 158°F (70°C).
- **Storage environment:** Stable between 0°F (-17.8°C) and 158°F (70°C) at 90% relative humidity (non-condensing).
- **Relay rating:** Dry contact relay rated at 24 VAC, 1 amp.
- **Thermostat connections:**
  - **INNOVA LTCH20/TFTH20 thermostats:** Connected via four screw terminals.
  - **Verdant thermostats:** Connected via a 4-pin connector that interfaces with a Verdant HVAC controller accessory. For more information on integrating the GWN gateway with a Verdant thermostat, refer to the GWN Gateway to Verdant Installation and Integration Guide.
- **Control settings:** DIP switches identify the type of AIO® unit and controller. For more information, refer to the AIO® GWN Gateway Installation Guide.
- **Supported temperature set points:** 61°F to 88°F (16.1°C to 31.1°C)
- **Fuse protection:** 2-amp fuse.
- **Dimensions:** 4" x 2.75" x 1" (101.6 mm x 70 mm x 25.4 mm).
- **Warranty:** Two-year limited warranty.

4. WIRING AND INSTALLATION

The GWN control board includes three cables:

- **Communication Cable (round gray):** For connecting the GWN board to the air conditioning control system in AIO® Wall Mounted Gen 2+ units.
- **Communication Cable (flat ribbon gray):** For connecting the GWN board to the air conditioning control system in AIO® Wall Mounted Gen 1 and other AIO® units.
- **Power Cable (black):** For supplying power from the unit.

4.1 AIO® unit compatibility

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

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

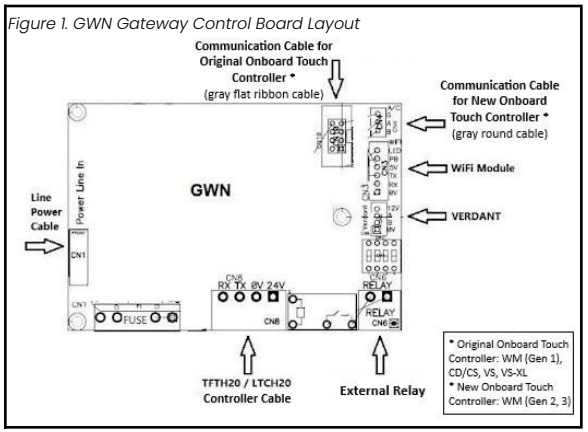
4.2 Installation instructions:

- In some models, installers must connect the communication cable from the GWN board to the AIO unit's controller panel, and the power cable must be hard-wired to the electrical panel (if it is not pre-installed).
- In some models, installers must connect the communication and power cables from the GWN board to terminals at the bottom of the AIO unit.
- In newer models, the communication and power cables are pre-installed within the AIO unit and only need to be connected to the gateway.

For complete installation instructions for each unit type, refer to the AIO GWN Gateway for AIO Heat Pumps Installation Guide.

5. LAYOUT

Figure 1. GWN Gateway Control Board Layout



To view a detailed layout diagram as a PDF file, click the link below:

GWN Rev A layout CINV11.pdf

REVISION HISTORY

Rev	Date	Revised By	Changes
A	2026-03-18	Leah Kuber	New document
B	2026-09-23	Leah Kuber	Add references to dual power sources, and update the wiring diagram accordingly.

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.

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MADE IN ITALY

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