

GW2 Wireless Manager

Technical Cut Sheet

The GW2 Wireless Gateway Manager and Zigbee Pro VT7000/8000 Series Room Controllers are targeted for either retrofit or new construction applications where the addition of communicating field bus wiring within the building space is prohibitive. The GW2 and Communicating Room Controllers with a wireless field bus encourages the use of existing wiring utilized by existing electronic controller type controls.

The GW2, when utilized in conjunction with the Room Controllers, will offer the integrator simple BACnet IP objects to integrate over standard building automation systems using familiar integration toolsets.

A maximum of 30 Room Controllers can be wirelessly attached to a single GW2.



AT A GLANCE

Networking

- Ethernet connector for BACnet IP
- 802.15.4 wireless mesh

Third-party interoperability

- BACnet IP
- ZigBee Pro (wireless)

Connectivity

- ZigBee Pro (wireless)

Other

- Real-time clock
- 400MHz processor
- 64MB of RAM



Wireless GW2 Manager Specifications

Specifications

Power

Voltage

24VAC; ± 15%; 50/60HZ

24VDC ± 10%

Typical consumption

5 VA + Output (VAC), 1.6 W + Output (VDC)

Battery

CR1220 3v Lithium Coin Cell Battery

General

Processor

ARM9 32-bit, 400MHz

Memory

64MB flash

Storage

4GB flash for local storage

Real-time clock

Battery backed (10,000 hours)

Communication

ZigBee Pro, Ethernet (10/100 Mbps)

Enclosure

Material

Rigid ABS

Dimensions

116mm (4.57 in) x 191mm (7.52 in)

Rating

UL94V0-5VB

Mounting

Din-rail, wall or ceiling mount

Environmental

Operating Temperature

0°C (32°F) - 60°C (140°F)

Storage Temperature

-20°C (-4°F) - 60°C (140°F)

Relative Humidity

0 to 90% non-condensing

Receiver Sensitivity

-95dBm

Conducted Output Power

5dBm

Range

Recommended: 45ft/15m

Line of sight: 100ft/30m

Antenna

External whip, RP SMA 0dBi

ZigBee Pro

Frequency

2400 – 2483.5MHz, 16RF channels

Data rate/Mod.type

250Kbps

Receiver Sensitivity

-101dBm/-105dBm (amplified)

Nominal Output Power

8dBm/18dBm (amplified)

Range

Recommended to GW2: 150ft/50m

Line of sight to GW2: 300ft/100m

Recommended to peripherals: 50ft/17m

Line of sight to peripherals: 100ft/30m

Antenna

External whip, RP SMA 2.5dbi

Building Expert

Software type

Embedded web interface

Local installation

None necessary

Browser compatibility

Firefox ESR

Internet Explorer 10 (only)

Google Chrome

Safari (Mac only)

Agency approvals

Energy Management Equipment, UL 916, Fourth Edition, December 23, 1998, rev. December 17, 2007

CSA Standard for Signal Equipment C22.2 No. 205-M1983 (R2004)

CFR47 FCC Part15, Subpart B:2009

ICES-003: Issue 4 (2004)

CE

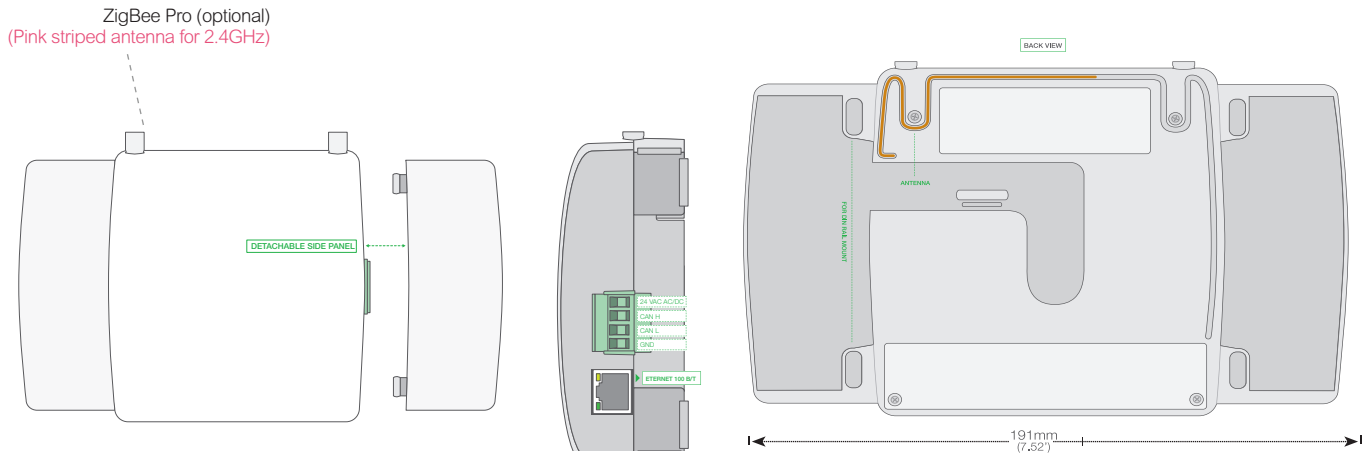
Japanese Radio Law

RoHS

Disclaimer

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Dimensions and Ordering



Ordering information

Part number GW2: GW2-010-00

Disclaimer

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: this device may not cause harmful interference and this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: this device may not cause interference and this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : l'appareil ne doit pas produire de brouillage et l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications not approved by the manufacturer could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

