





GW2 - Intelligent Gateway

#### Overview

#### Power

- > 400MHz processor
- > 64MB of RAM
- > 2GB Flash

#### Networking

- > Ethernet connector for BACnet Ethernet/IP connectivity
- > 802.15.4 wireless mesh
- > Wired serial bus for daisy-chain

#### Third party interoperability

- > BACnet
- > EnOcean (wireless)
- > Zigbee (wireless)
- > CANbus

#### Wireless integration

> Embedded web BMS for simple discovery and configuration of wireless end-devices

## Other

> Real-time clock

# **GW2 - Intelligent Gateway**

Building automation's missing link

# ΓM

#### Introduction

GW2 are powerful programmable controllers with embedded gate ways and servers that allow building owners, facility managers, and contractors to deploy a 100% wireless building automation system (BAS) or to integrate wireless solutions to wired building automation systems. CAN2GO GW2 are interoperable with any BACnet IP BAS/BMS.

# **Applications**

The GW2 is ideal for retrofits. It has an aesthetic look, similar to a rout er, allowing for in-room deployment. It supports control and gateway functionalities for wireless end-devices for the following applications:

- > HVAC room and zone control (actuators, thermostats, sensors, etc.).
- > Lighting room and zone control (switches, relays, sensors, etc.).
- > Access (i.e.: keycard readers, occupancy sensors, etc.).
- > Metering and sub-metering.

# **Control features**

- > Wireless control of EnOcean end-devices (128/128 I/O per GW2).
- > Wireless control of ZigBee end-devices (128/128 I/O per GW2).
- > Programmable via the CAN2GO Web BEMS or a BACnet IP system.
- > Real-time response to scripting/graphical programming.

### Networking between units

- > Wireless ZigBee wireless mesh network (self-forming/healing).
- > Wired Daisy chain.
- > IP/Ethernet Ethernet port.

# **Embedded gateway**

- >EnOcean (wireless) to BACnet IP.
- >ZigBee (wireless) to BACnet IP.

### CAN2GO Web Building Energy Management System

The GW2 has an embedded web server hosting the CAN2GO Web BEMS. The BEMS offers management and monitoring of building systmes (HVAC, Lighting, Metering, etc.) through dashboards, maps, graphical programming and scripting. Visit our website for more in formation.

http://www.can2go.com/en/products/webbms.htm

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| CAN2GO Specifications



# **Specifications**

# GW2 - Intelligent Gateway

	24//46 150/ . 50/60117. Class 3
Voltage	- 24VAC; ± 15%; 50/60HZ; Class 2.
	- 24VDC ± 10%
Typical Consumption	- 3 VA + Output (VAC) - 1.2W + Output (VDC)
GENERAL	
Processor	ARM9 32-bit
Memory	64Mb RAM
Storage	2Gb Flash
Real-time clock	Battery backed (10,000 hours)
Communication	- Zigbee Pro, EnOcean, BACnet - CANbus (125-500 Kbps) - Ethernet (10/100 Mbps)
ENCLOSURE	
Material	Rigid ABS
Dimensions	191mm (7.52 in) X 116mm (4.57 in)
Rating	UL940-5VA
Mounting	Wall or ceiling mount
ENVIRONMENTAL	
Operating Temperature	o°C (32°F) to 60°C (140°F)
Storage Temperature	-20°C (-4°F) to 60°C (140°F)
Relative Humidity	o to 90% non-condensing
AGENCY APPROVAL	.S
Energy Management Eq ber 23, 1998, rev. Decemb	uipment, UL 916, Fourth Edition, Decem ber 17, 2007
CSA Standard for Signal	Equipment C22.2 No. 205-M1983 (R2004)
CFR47 FCC Part15, Subpa	art B:2009
ICES-003: Issue 4 (2004)	

COSTUADS	
SOFTWARE	
Туре	Embedded web interface
Local installation	None necessary
PDA/Smartphone compa	atible Yes
Browser compatibility	Firefox 3.6 and 4.0
ENOCEAN TRANSCE	IVER (OPTIONAL)
Frequency	315.0 MHz or 868.3 MHz
Receiver Sensitivity	-95dBm
Conducted Output Powe	er 5dBm
Dange	Up to 100m/300ft. open air /
Range	Up to 30m/100ft. in building
Antenna	- 15 cm wire
	- (Optional) External whip, RP SMA <b>0</b> dB
ZIGBEE TRANSCEIV	ER (OPTIONAL)
Frequency	2400 – 2483.5 MHz, 16 RF channels
Data rate / Mod. type	250 Kbps
Receiver Sensitivity	-101dBm / -105dBm (amplified)
Nominal Output Power	8dBm / 18dBm (amplified)
Range	Up to 1000m/3000ft. open air /
	Up to 300m/1000ft. in building
Antenna	- Internal
	- (Optional) External whip, RP SMA 2.5d



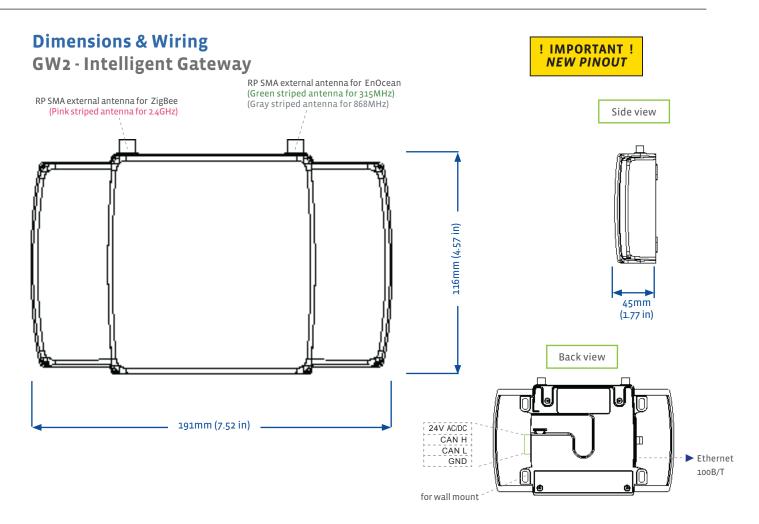








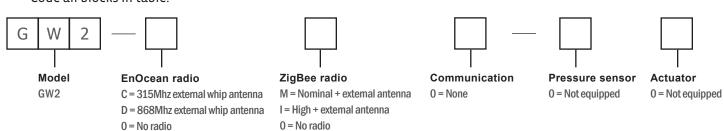




# **Ordering information**

Model: GW2 - Intelligent Gateway

Code all blocks in table.

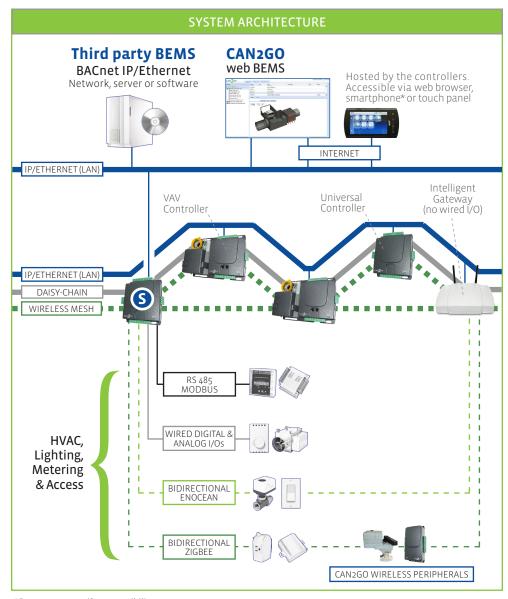


| CAN2GO Specifications



# **CAN2GO System architecture**

CAN2GO can be used as stand-alone solution, complete with programmable controllers and an embedded web building energy management system. It can also be integrated with third party BACnet IP/Ethernet building automation systems.



## \*Contact us to verify compatibility

#### **BEMS**

#### CAN2GO web BEMS

Using a web browser, smartphone\* or touch panel interface, the BEMS is accessible via the local area network (LAN) or online through a secure virtual private network (VPN).

It offers centralized control, monitoring and local programming of each controller.

#### CONTROLLERS

Server

The controller is the server. Connect one CAN2GO unit to the LAN to access the web interface and manage your entire network.

#### Gateway

The controller is the gateway. Conversion of end-devices into BACnet objects is performed by the controllers. They are equipped with embedded BACnet gateways.

# Models & Applications

CAN2GO offers a variety of controller models including the Universal, VAV and Gateway controllers. They are fully programmable with local storage and can manage all types of HVAC, lighting and metering applications.

#### **End-devices**

CAN2GO controllers can manage EnOcean, ZigBee, Modbus and wired end-devices, for multiple applications, all at the same time.