Mx-EBOX 3.0

EnOcean to BACnet Gateway

MAGNUM INNOVATIONS

Quick and Easy Wireless to BACnet Solution

Magnum's EnOcean to BACnet gateway (MX-EBOX) is an easy to use, high performance building automation protocol gateway for integrators to interface EnOcean devices (ie sensors, actuators, switches) to BACnet networks in commercial buildings, campuses, industrial facilities and more. The eBox is the quick and easy solution to any integrators BACnet needs. With no programming or scripting, integrators don't need to be experts to connect wireless devices to a BACnet IP based system. In addition to the eBox, Magnum's AirConfig tool is utilized to configure the device prior to point discovery.

Bridging the Wireless Gap

Magnum's EnOcean to BACnet gateway is an ideal device to bring in critical HVAC, plug load and lighting data into an existing or planned building automation system. Today, more and more end users and integrators want to leverage their trusted and existing building platform and include the addition of new systems, including lighting controls.

Faster Commissioning Time

The eBox is robust in its functionality but simple to set up, with features like "auto learn" whereby initial device inputs are created, but then command outputs are automatically identified. This EnOcean to BACnet gateway also includes streamlined BACnet point mapping, allowing integrators to quickly discover data points and begin their logic build out. Integrators are also able to create or upload predefined configuration files into the gateway for even faster configuration.

Gateway Details:

- *Bidirectional in operation*
- *Listens to an unlimited number of incoming data points*
- *POE capability built into the device*
- *Easy to understand LED indicators*
- *Available in 902 MHZ, 868 MHZ and 928 MHZ*
- *Automatic updates over the Internet*

Configuration Details:

- *eBox devices discoverable/configurable via BACnet IP or EnOcean radio*
- *Read/write function of XML profile through AirConfig*
- *Supports EDE via standardized CSV or Excel file upload*

Network Requirements:

- *DHCP/static IP*

POWER OPTIONS:

- Direct 24V
- Power adapter available with additional purchase
- POE on board device

All content subject to change

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ADDITIONAL TECHNICAL SPECIFICATIONS:

Part Numbers (Frequency Dependent)	M9-EBOX 3.0 (902 MHz - North America) M8-EBOX 3.0 (868 MHz - Europe and China) MJ-EBOX 3.0 (928 MHz - Japan)
Processor	AM3358 1GHz ARM® Cortex-A8 Processor
On-board Flash	4GB
Rated Voltage	12 - 42 VDC, 20-30 VAC
Rated Power	12 Watt
RAM	1 GB
Cache	256KB
POE Power Requirements	3 watts @ 48 volts
Certifications	FCC ID: SZV-PTM210U SZV-TCM3XXX, 2ANUH-LSTM300U IC: 5713A-PTM210U

AIRCONFIG - FEATURES:

- eBoxes discoverable via BACnet/IP or EnOcean radio
- Configuration via TCP/IP and EnOcean radio
- Supports EDE (Engineering Data Exchange) via standardized CSV or Excel File

FULL INSTALLATION INSTRUCTIONS:

https://magnumenergysolutions.com/magnum/wp-content/uploads/2016/06/EBOX-Start-Up-Guide.pdf

NOTE: Range can vary greatly based on building materials, device positioning, interferance, etc. Reference the EnOcean Range Planning Guide prior to installation.

NETWORK:

- DHCP/static IP
- WLAN (open, WPA, WPA2)
- Class A,B,C network support
- Automatic updates over internet

ENOCEAN:

- Full EnOcean EEP 2.6.6 support
- Custom profiles can be added manually
- No programming required
- Broadcast/addressed messages
- Built-in message server
- UTE support
- Supports every Manufacturer ID for teach in telegrams to devices

Product Dimensions & Device Overview: