



# i-Vu® Building Automation System MPC Open XP

Part Number: OPN-MPCXP



*The i-Vu® Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet® controllers, and state-of-the-art Carrier equipment.*

The MPC Open XP controller provides multi-purpose monitoring and control for a variety of HVAC system applications. Flexible and versatile, the MPC Open XP controller supports multiple I/O configurations for accomplishing both common and custom HVAC control strategies. The MPC Open XP controller connects to up to 20 field points directly (8 outputs and 12 inputs), while also supporting up to 3 MPC Open XPIO expanders. Each

MPC Open XPIO48 expander adds support for up to 12 additional field points (4 outputs, 8 inputs), while each MPC Open XPIO816 expander controller adds support for up to 24 additional field points (8 outputs, 16 inputs). When combined, the MPC Open XP controller and its associated expanders can support up to 92 total points.

## Application Features

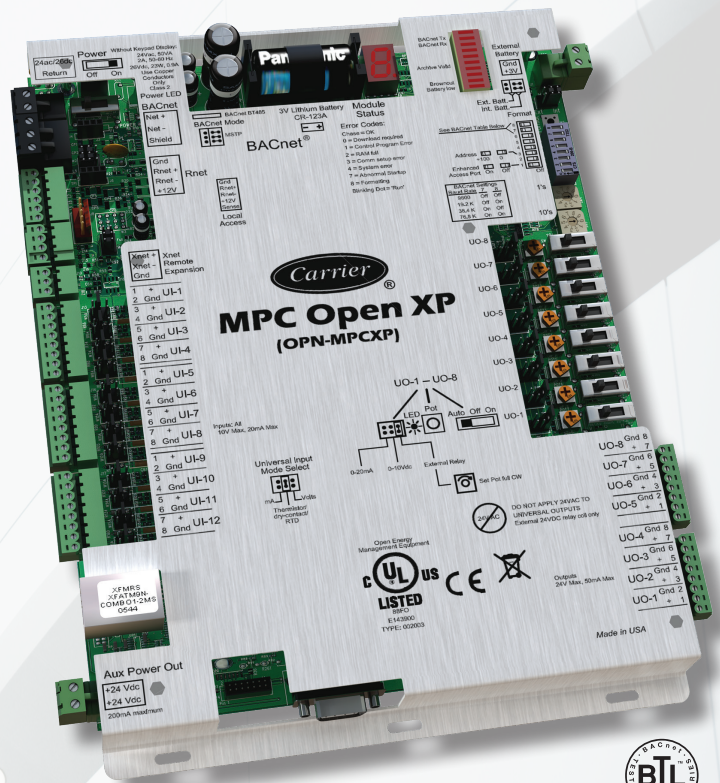
- Comprehensive library of factory-engineered control programs available for complete air-side and water-side system control
- Graphically programmable using the Snap programming tool
- Supports Carrier communicating room sensors, which allow for local setpoint adjustment and local overrides

## System Benefits

- Fully plug-and-play with the Carrier i-Vu Building Automation System
- Supports demand limiting and optimal start for maximum energy savings
- Compatible with i-Vu Tenant Billing for tracking tenants' after-hours energy usage

## Hardware Features

- Battery-backed real time-clock keeps time in the event of power failure
- Capable of system or stand-alone operation
- Native BACnet MS/TP communications
- Universal inputs and outputs, with HOA override switches on outputs
- First MPC Open XPIO expander can be mounted directly on MPC Open XP controller to save panel space



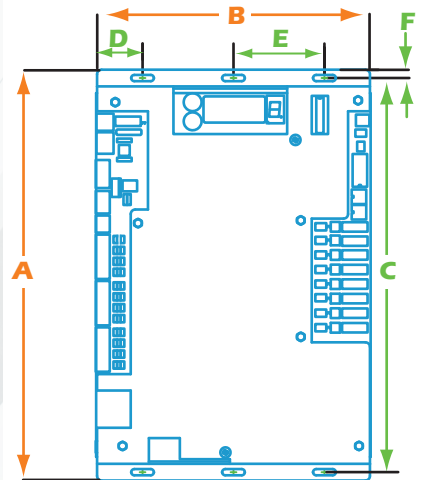


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<b>BACnet Support</b>	Advanced Application Controller (B-BC), as defined in BACnet 135-2008 Annex L
<b>Communication Ports</b>	<p><b>BACnet port:</b> BACnet MS/TP - 9600 bps, 19.2 kbps, 38.4 kbps, or 76.8 kbps</p> <p><b>Local Access port:</b> For system start-up and troubleshooting (115.2 kbps);</p> <p><b>Rnet port:</b> For connecting Carrier communicating room sensors and Carrier's touchscreen user interface</p> <p><b>Xnet Remote Expansion port:</b> For communication with up to 3 MPC XPIO expanders (500 kbps). Connection options: Mount 1 on top of MPC XP, mount in a stack, or mount remotely up to 100 ft. away from MPC XP.</p>
<b>Inputs</b>	12 inputs, configurable for 0-5 VDC, 0-10 VDC, 0-20 mA, thermistor (10k Type II), 1k RTD (Platinum, Nickel, or Balco), and Dry Contact. All have 14 bit A/D and support up to 40 pulses per second (12.5 msec min. pulse).
<b>Outputs</b>	8 outputs, jumper configurable for 0-10 VDC, 0-20 mA (12 bit A/D), or 24 VDC (50 mA relay drive). HOA (hand/off/auto) switches for all outputs, including potentiometer for manual adjustment of analog outputs.
<b>Protection</b>	<p><b>Incoming power:</b> replaceable 3 Amp Pico® fuse</p> <p><b>Network:</b> non-replaceable internal solid-state polyswitches that reset themselves when fault clears. The power, network, and I/O are also protected against voltage transient and surge events.</p>
<b>Battery</b>	10-year Lithium CR123A battery provides a maximum of 720 hours of time retention during power outages.
<b>Status Indicators</b>	LED status for communications and low battery. 7-segment status display for running, error, and power.
<b>Listed by</b>	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A
<b>Addressing</b>	Rotary dip switches set BACnet MS/TP address
<b>Real Time Clock</b>	Battery-backed real time clock
<b>Environmental Operating Range</b>	<p><b>-Operating:</b> 0 to 140°F (-18 to 60°C) 10 to 90% RH, non-condensing</p> <p><b>-Storage:</b> -24 to 140°F (-30 to 60°C) 10 to 90% RH, non-condensing</p>
<b>Power Requirements</b>	<p>24VAC ± 10%, 50-60Hz</p> <p>50 VA power consumption</p> <p>26VDC (25V min, 30V max), 23W</p> <p>Single Class 2 source only, 100 VA or less</p>

<b>Dimensions</b>	<p><b>Overall</b></p> <p><b>A:</b> 11-5/16" (28.7 cm)</p> <p><b>B:</b> 7-1/2" (19 cm)</p> <p><b>Mounting</b></p> <p><b>C:</b> 10-7/8" (27.6 cm)</p> <p><b>D:</b> 1-1/4" (3.2 cm)</p> <p><b>E:</b> 2-1/2" (6.4 cm)</p> <p><b>F:</b> 1/4" (.6 cm)</p> <p><b>Depth:</b> 1-7/16" (3.7 cm)</p> <p><b>Weight:</b> 1.7 lbs (0.8 kg)</p>
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**CONTROLS EXPERT**

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**For more information, contact  
your local Carrier Controls Expert.**  
Controls Expert Locator:  
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