i-Vu® Building Automation System
UC Open XP IO

Part Number: OPN-UCXPIO

Carrier

United Technologies

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 UC Open XP IO expander adds additional I/O point capacity to the UC Open XP Controller. These controllers provide auxiliary building control to interface with air handlers, chiller plants, hot water systems, lighting, and other HVAC equipment. The UC Open XP's factory-engineered control programs provide simple building integration for commercial applications with 24 I/O point capability. When the UC Open XP IO expander is added to the UC Open XP controller, up to 24 additional I/O points are available. Together, these controllers support up to 48 total I/O points for even greater flexibility.
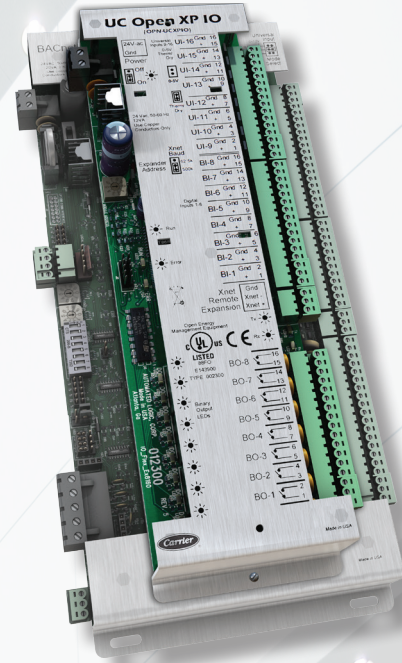
Application Features

- Comprehensive library of factory-engineered control programs available for air and water systems, including: CV and VAV AHU control, WSHP loop control (boilers/towers/pumps), chiller plant control, hot water systems, lighting control, metering, and network data sharing

- Supports Snap graphical programming for creating customized control programs

- Supports Carrier communicating room sensors, which allow for local setpoint adjustment and local overrides

Hardware Features

- Expands the UC Open XP Controller to support up to 48 I/O points

- Removable screw terminals for I/O connections

- Versatile mounting options: may be mounted directly onto the UC Open XP enclosure or separately within the mounting enclosure

System Benefits

- Integrated Carrier linkage algorithm for plug-and-play integration with Carrier systems

- Fully plug-and-play with the Carrier i-Vu Building Automation System

- Supports demand limiting for maximum energy savings
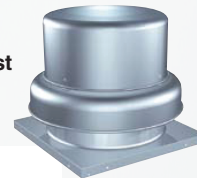
Sample Applications

AHUs

Boilers

Exhaust Fans

Lighting

Water Loop Control

Electric Meters

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Communication Ports	Xnet Remote Expansion port: For connecting to a UC XP Controller via the Xnet network
Inputs	**8 binary inputs:** Inputs 1-8 are binary only and support pulse counting up to 10 Hz. **8 analog inputs:** Inputs 9-16 are universal inputs, jumper selectable between thermistor/dry contact and 0 - 5VDC. All analog inputs have 10 bit A/D resolution.
Outputs	**8 binary outputs:** Configured as dry contact, normally open, and must be powered from a Class 2 power source.
Protection	Incoming power and network connections are protected by non-replaceable internal solidstate polyswitches that reset themselves when the condition that causes a fault returns to normal. The power, network, input, and output connections are also protected against voltage transient and surge events
Status Indicators	LED status of power, outputs, running, and errors
Listed by	UL916 (Canadian Std C22.2 No. 205-M1983), CE, FCC Part 15 – Subpart B – Class A
Environmental Operating Range	**Operating:** -20° to 140°F (-29° to 60°C); 10 to 90% relative humidity, non-condensing **Storage:** -20° to 140°F (-29° to 60°C); 10 to 90% relative humidity, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz 13 VA power consumption 26VDC (25V min, 30V max) Single Class 2 source only, 100 VA or less
Dimensions	**Overall** **A:** 10-5/8" (26.9 cm) **B:** 3" (7.6 cm) **Mounting** **C:** 10-3/16" (25.9 cm) **D:** 1-1/2" (3.8 cm) **E:** 13/64" (.5 cm) **Depth:** 1-1/2" (3.8 cm) **Weight:** 0.73 lbs (0.33 kg)
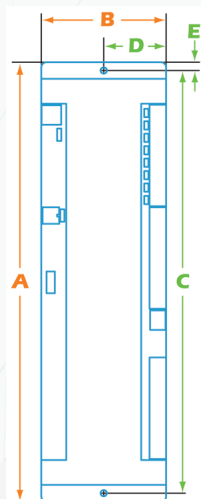
CONTROLS EXPERT

Tested. Certified. Factory Authorized.