Carrier

i-Vu® Building Automation System

UC Open XP

Part Number: OPN-UCXP

The UC Open XP controller provides 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. The UC Open XP also provides support for 24 additional I/O points through the use of the UC Open XP IO Expander. When combined, these controllers can 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

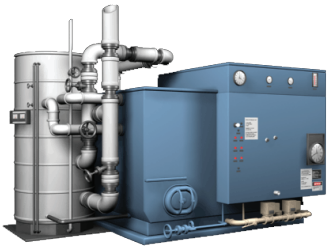
- Battery-backed real time clock keeps time in the event of power failure
- Supports up to 48 I/O points with UC XP IO expander
- Native BACnet MS/TP or ARCNET communications

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

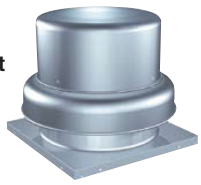
AHUs



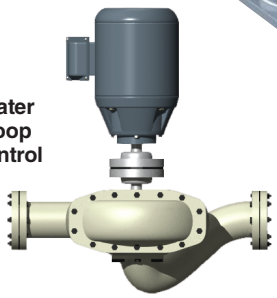
Boilers

Lighting

Exhaust Fans



Water Loop Control



Electric Meters

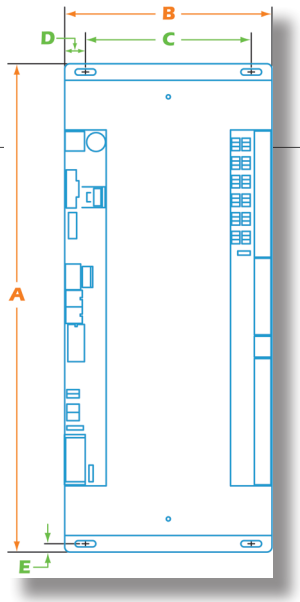
i-Vu® Building Automation System

UC Open XP

Part Number: OPN-UCXP

Specifications

BACnet Support	Advanced Application Controller (B-AAC), as defined in BACnet 135-2001 Annex L Protocol rev. 9
Communication Ports	**BACnet port:** EIA-485 port for BACnet MS/TP (baud rate is DIP switch selectable) or ARCNET 156 Kbps **Local Access port:** For system start-up and troubleshooting (115.2 kbps) **Rnet port:** For connecting Carrier communicating room sensors and Carrier's touchscreen user interface.
Inputs	**12 inputs:** Configurable for 0-10V, RTD/Thermistor/Dry contact, or 0-20mA. Inputs 1 and 2 may be used for pulse counting. All analog inputs have 12 bit A/D resolution.
Outputs	**6 binary outputs:** Configured as dry contact, normally open or normally closed. All binary outputs must be powered from a Class 2 power source. **6 analog outputs:** 1 and 2 are configurable for 0-10V or 0-20mA; 3-6 are 0-10V only. Analog outputs have 8 bit D/A resolution.
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.
Real Time Clock	Battery-backed real time clock keeps track of time in event of power failure
Battery	10-year Lithium CR2032 battery: a min of 10,000 hours of trend data/time retention during power outages
Status Indicators	LED status of power, running, and errors. LED indicators for transmit/receive for BACnet port and for each of the 12 outputs
Controller Addressing	Rotary DIP switches set BACnet MS/TP or ARCNET MAC address of controller
Listed by	**United States:** FCC compliant to Title CFR47, Part 15, Subpart B, Class A; UL Listed, File E143900; CCN PAZX, UL 916, Energy Management Equipment; **ANZ:** RCM Mark AS/NZS 61000-6-3; **Canada:** UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant ICES-003, Class A; **CE Mark** Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; **UKCA Mark** compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012
Environmental Operating Range	**Operating:** -0 to 140°F (-18 to 60°C), 10–90% relative humidity, non-condensing **Storage:** -24 to 140°F (-30 to 60°C), 10–90% relative humidity, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz 20 VA power consumption 26VDC (25V min, 30V max) Single Class 2 source only, 100 VA or less
Dimensions	**Overall** **A:** 11-13/16 in. (30 cm) **B:** 5 in. (12.7 cm) **Mounting** **C:** 1/2 in. (1.3 cm) **D:** 4 in. (10.2 cm) **E:** 13/64 in. (.5 cm) **Depth:** 2 in. (5.1 cm) **Weight:** 1.1 lbs (0.50 kg)



For more information, contact your local Carrier Controls Expert.

Controls Expert Locator:
www.carrier.com/controls-experts