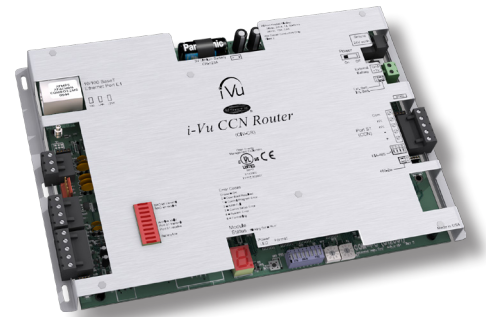# i-Vu® Building Automation System
i-Vu® CCN Router
Part Number: CIV-CR

The i-Vu CCN router provides scalability for larger Carrier systems. It connects an ethernet-based Local Area Network (LAN) to the Carrier Comfort Network (CCN). The i-Vu CCN router can be used in two different configurations. It can either serve as a gateway, where it gives the i-Vu web server residing on the ethernet LAN access to the entire CCN, or it can function as a bridge, where it interfaces with other CCN communication buses in order to extend a CCN within a campus or building. Because the i-Vu CCN router allows for the use of existing LAN wiring, it is an ideal solution for integrating CCN into any building or facility.

The i-Vu CCN router has one EIA-485 port for connecting to the CCN bus, and one 10/100Base-T ethernet port for connecting to the building LAN. Each i-Vu CCN router can connect to up to 140 CCN devices. The i-Vu CCN router also stores trend data and time schedules for the CCN devices that are connected to it.
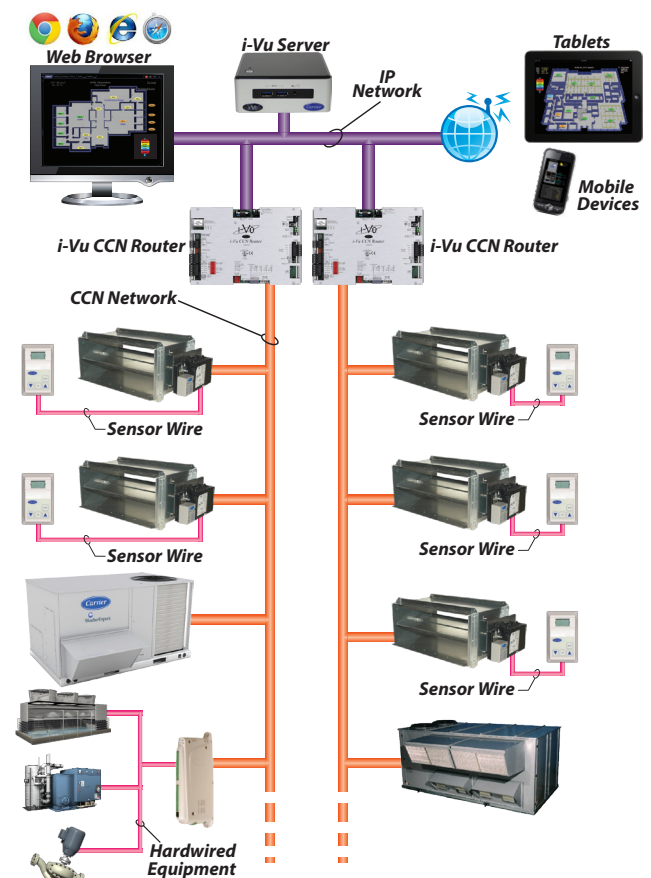
The i-Vu Building Automation System

Functions
The i-Vu CCN router functions in one of the following modes, depending on configuration:

- **Gateway:** Provides access to the CCN bus from an i-Vu web server that resides on the ethernet. The router is serving as the access node from the ethernet to the CCN and is responsible for maintaining a routing table of CCN system elements.

- **Bridge:** Acts as a CCN/ethernet interface device in applications where the ethernet is being used to connect separate CCN buses. This application requires an additional router functioning as a gateway.

Each i-Vu CCN router has a static Internet Protocol (IP) address. This IP address can be set using the CCN Network Service Tool.

Up to 140 CCN devices per i-Vu CCN router.

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Specifications

Communication Ports	**Port E1:** 10/100 BaseT Ethernet port for LAN and BACnet IP communications; **Port S1 (CCN):** EIA-485 port for CCN Network and/or CCN Service Tool connection (9600 bps & 38.4 kbps)
Protection	Incoming power and network connections are protected by non-replaceable internal solid-state polyswitches that reset themselves when the condition that causes a fault returns to normal. The power and network connections are also protected against voltage transient and surge events.
Real-Time Clock	Battery-backed real-time clock
Battery	10-year Lithium CR123A battery provides a maximum of 720 hours of time retention during power outages. To conserve battery life, battery backup turns off after a specified number of days defined in the module driver.
Status Indicators	LED status indicators for BACnet MS/TP communication, Ethernet port communication, and low battery status. 7-segment status display for running, error, and power status
Router Addressing	Rotary DIP switches set address of Router
Listed By	UL916 (Canadian Std C22.2 No. 205-M1983), CE, FCC Part 15 – Subpart B – Class A
Environmental Operating Range	**Operating:** 0 to 140ºF (-18 to 60ºC); 10 to 90% RH, non-condensing **Storage:** -24 to 140ºF (-30 to 60ºC); 10 to 90% RH, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz, 24 VA power consumption, 26VDC (25V min, 30V max), Single Class 2 source only, 100 VA or less
Phyiscal	Rugged aluminum cover and removable screw terminal blocks
Dimensions	**Overall** **A:** 7-1/2 in. (19.1 cm) **B:** 11-3/8 in. (28.9 cm) **Mounting** **C:** 5 in. (12.7 cm) **D:** 10-7/8 in. (27.6 cm) **E:** 1-1/4 in. (3.2 cm) **F:** 1/4 in. (.6 cm) **Depth:** 1-1/2 in. (3.8 cm) **Weight:** 1.4 lbs. (.64 kg)

For more information, contact your local Carrier Controls Expert.

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