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.

**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.

**The i-Vu® Building Automation System**

Up to 140 CCN devices per i-Vu CCN Router
Specifications

Part Number: CIV-CR

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 reten-
tion 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 140°F (-18 to 60°C); 10 to 90% RH, non-condensing
Storage: -24 to 140°F (-30 to 60°C); 10 to 90% RH, non-condensing

Power Requirements

24VAC ± 10%, 50-60Hz, 24 VA power consumption (30 VA with BACview),
26VDC (25V min, 30V max), Single Class 2 source only, 100 VA or less

Physical

Rugged aluminum cover and
removable screw terminal blocks

Dimensions

Overall
A: 7-1/2” (19.1 cm)
B: 11-3/8” (28.9 cm)

Mounting
C: 5” (12.7 cm)
D: 10-7/8” (27.6 cm)
E: 1-1/4” (3.2 cm)
F: 1/4” (.6 cm)

Depth: 1-1/2” (3.8 cm)
Weight: 1.4 lbs. (.64 kg)