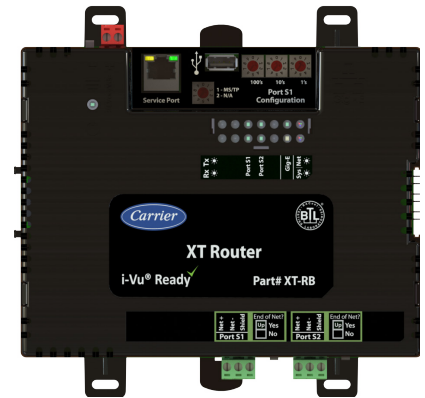# i-Vu® Building Automation System
i-Vu XT Router

Part Number: XT-RB

The i-Vu XT Router (XT-RB) is a high-performance BACnet router that provides routing of BACnet messages between several network types including BACnet/SC, BACnet/IP, BACnet Ethernet and BACnet MS/TP. With the Gen5 driver, the XT-RB supports BACnet Secure Connect (SC), which provides the means to create secure communications connections between controllers across the cloud and within facilities. This device can also support IPv6 and IPv4 networks concurrently.
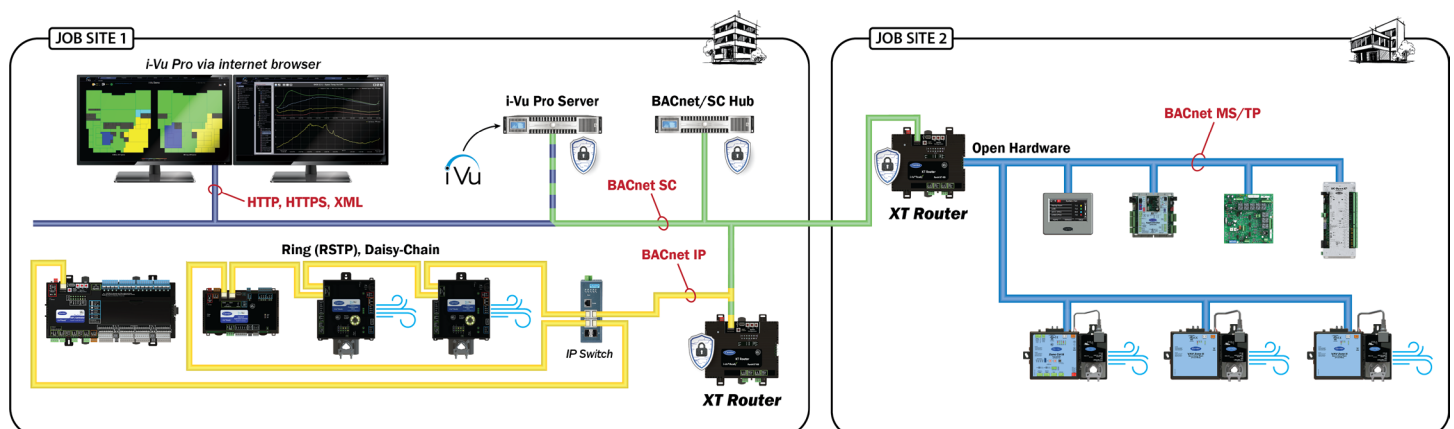
BACnet Features

- Features end-to-end encrypted BACnet Secure Connect (BACnet/SC) routing between BACnet/SC hubs and the i-Vu system via BACnet/SC, an encrypted datalink layer specifically designed to meet the requirements, policies, and constraints of minimally-managed to professionally managed IP infrastructures

- Supports concurrent BACnet networks (BACnet/SC and non-BACnet/SC), allowing facilities to migrate to the BACnet/SC environment over time

- Includes two additional BACnet ports to support two simultaneous BACnet MS/TP networks (up to 60 controllers each) to simultaneously route and share data across a wide range of building subsystems

- Can serve as a BACnet Broadcast Management Device (BBMD) routing any BACnet broadcast messages directly to other BBMD devices on the BACnet network

- Supports BACnet Foreign Device Registration (FDR)

Hardware Features

- IPv6 and IPv4 networks are supported | 1000 BaseT speed

- Stateless auto-configuration of addresses (SLAAC), static IPv6 addressing, and DHCP IP addressing are supported

- Password protected Ethernet service port at 100 Mbps for system start-up and troubleshooting

- Web sever local access for properties such as network and alarm configuration, notification classes, etc.

- Capacitor-backed real-time clock keeps time in the event of power failure or network interruption for up to 3 days

System Benefits

- Connects seamlessly to the i-Vu building automation system

- Multiple serial communication ports to simultaneously route and share data across a wide range of building subsystems

i-Vu® Building Automation System
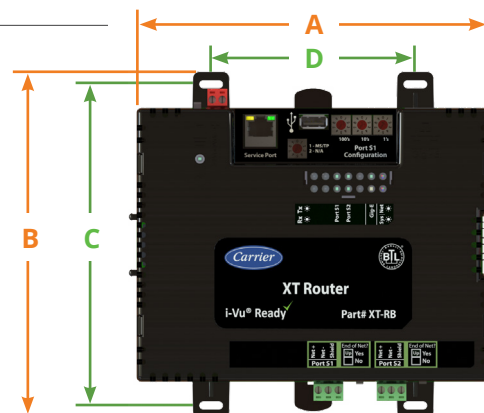# i-Vu® XT Router

Part Number: XT-RB

Specifications

BACnet Support	Conforms to the BACnet Router (B-RTR) Standard Device and BACnet BBMD (B-BBMD) Device as defined in BACnet 135. Tested to and listed to Protocol Revision 19 (135-2016). BTL Listing
Power Requirements	24VAC ± 10%, 50-60Hz, 50 VA 26VDC ± 10%, 15W
Communication Ports	**Gig-E:** 10/100/1000 BaseT Ethernet port for BACnet/SC, BACnet/IP and/or BACnet/Ethernet communication on the Ethernet at 10, 100, or 1000 Mbps, full duplex | *Support for BACnet/SC requires driver version gen5_106-01-2380 or later **- IPv4:** 1000Mbps BACnet IP and DHCP IP addressing **- IPv6:** 1000Mbps BACnet IP for static IPv6 addressing and stateless auto-configuration of addresses (SLAAC) *Support for IPv6 requires driver version gen5_106-01-2380 or later **Port S1:** EIA-485 port for communication BACnet MS/TP network at 9,600 to 115,200 bps 　　An **End of Net** switch can be turned on to terminate the network segment. **Port S2:** EIA-485 port for communication BACnet MS/TP network at 9,600 to 115,200 bps 　　An **End of Net** switch can be turned on to terminate the network segment. **Service Port:** 10/100 Base T Ethernet port for system start-up and troubleshooting.
Protection	Device is protected by a replaceable, fast acting, 250Vac, 2A, 5mm x 20mm glass fuse. The power and network ports comply with the EMC requirements EN50491-5-2.
Real-Time Clock	Real-time clock keeps track of time in the event of a power failure for up to 3 days.
LED Status Indicators	Tricolor **NET** LED to show network status / Tricolor **SYS** LED to show system status A **TX** (Transmit) and **RX** (Receive) LED for: Gig-E port, Port S1, Port S2
Router Addressing	Rotary DIP switches set address of router
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
Compliance	**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.
Phyiscal	Fire-retardant plastic ABS, UL94-5VA
Dimensions	**Overall** **A:** 7.1 in. (18.03 cm) **B:** 6.95 in. (17.65 cm) **Mounting:** DIN rail mount or screw mount **C:** 6.45 in, (16.38 cm) **D:** 4.1 in. (10.4 cm) **Depth:** 2.79 in. (7.09 cm) **Weight:** 1.1 lbs. (.482 kg)

For more information, contact your local Carrier Controls Expert.

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