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Carrier XT-LB i-Vu Building Automation System



Specifications

- **BACnet Support:** BACnet/IP, BACnet MS/TP
- **Communication Ports:** Gig-E, Port S1, Port S2
- **Protection:** Fire-retardant plastic ABS, UL94-5VA
- **Integration:** N2 Open, KNX, SNMP
- **Real Time Clock:** Yes, up to 3 days backup
- **LED Status Indicators:** Tricolour NET, Tricolour SYS, TX/RX LEDs
- **Router Addressing:** Rotary DIP switches
- **Physical Dimensions:**
 - **Overall:** A – 7.1 in., B – 6.95 in., C – 6.45 in., D – 4.1 in.
 - **Mounting:** DIN rail mount or screw mount
 - **Depth:** 2.09 in., Weight: 1.1 lbs.

Product Usage Instructions

Installation

1. Ensure power supply meets requirements.
2. Mount the XT-LB unit using DIN rail or screw mount.
3. Connect the unit to the Ethernet LAN using appropriate cables.
4. Set the router address using the rotary DIP switches.

Configuration

1. Access the i-Vu web server to configure the XT-LB unit.
2. Add and configure devices connected under the XT-LB, including i-Vu and third-party devices.
3. Integrate with other protocols such as N2 Open, KNX, and SNMP if required.

Maintenance

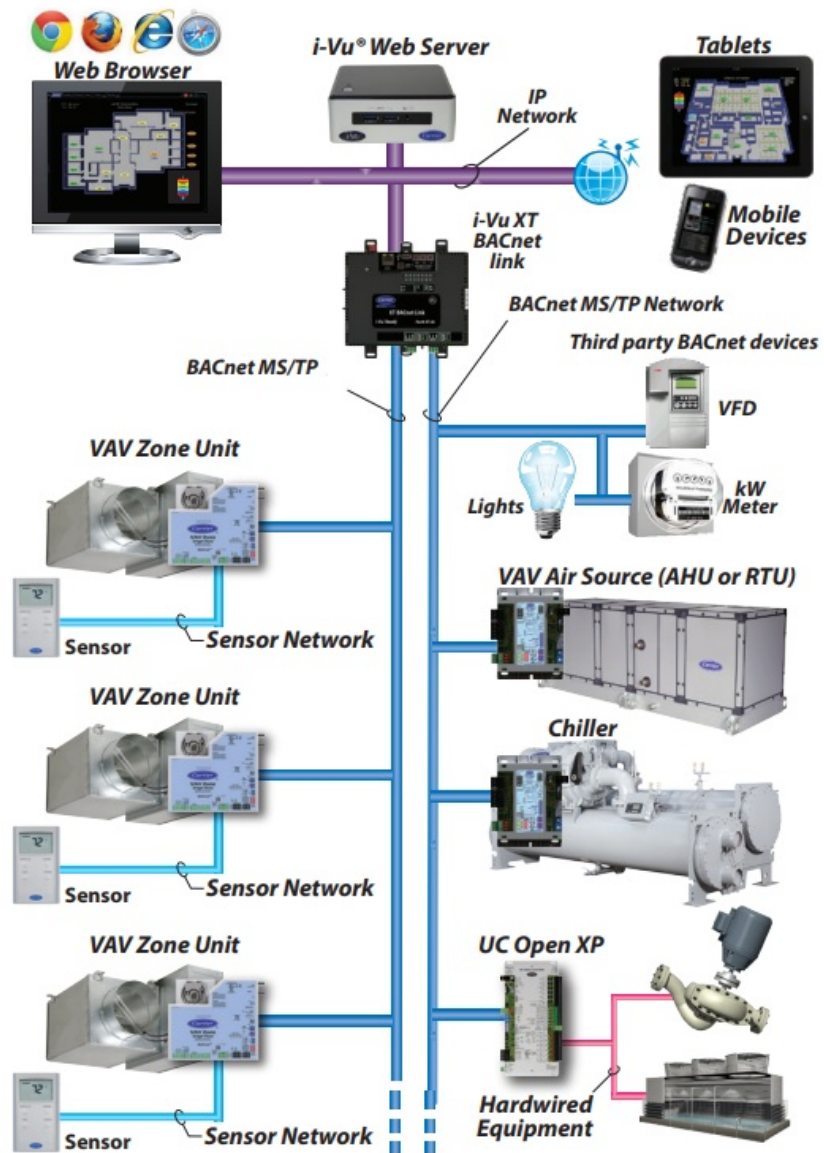
1. Regularly check the LED status indicators for system and network status.
2. Ensure the real-time clock is functioning correctly, especially after power failures.
3. Keep the unit clean and free from dust or debris.

INTRODUCTION

- The i-Vu XT BACnet Link allows you to integrate other manufacturers' equipment into the i-Vu building automation system using various protocols, making it easy to tie in equipment such as VFDs, boilers, and lighting systems.
- It supports integration via BACnet, Modbus, N2 Open, KNX, M-Bus, and SNMP protocols, enabled by the gen5 driver. Each i-Vu XT BACnet Link supports up to 1,500 third-party BACnet points and up to 500 Flex points for any protocol.
- The system can be expanded with Gen5 point packs to support up to 5,000 Flex points.
- The i-Vu XT BACnet Link also routes BACnet messages between the i-Vu building automation system backbone (BACnet/IP) and a subnetwork of i-Vu controllers (BACnet MS/TP).
- It connects directly to the Ethernet LAN and provides the i-Vu web server with access to the controller and any devices connected under that XT-LB, which can include a mixture of i-Vu and third-party devices.

Building Automation System

The i-Vu® Building Automation System



Up to 60 i-Vu Controllers per BACnet MS/TP network

- VFDs



- Boilers



- Lighting



Specifications

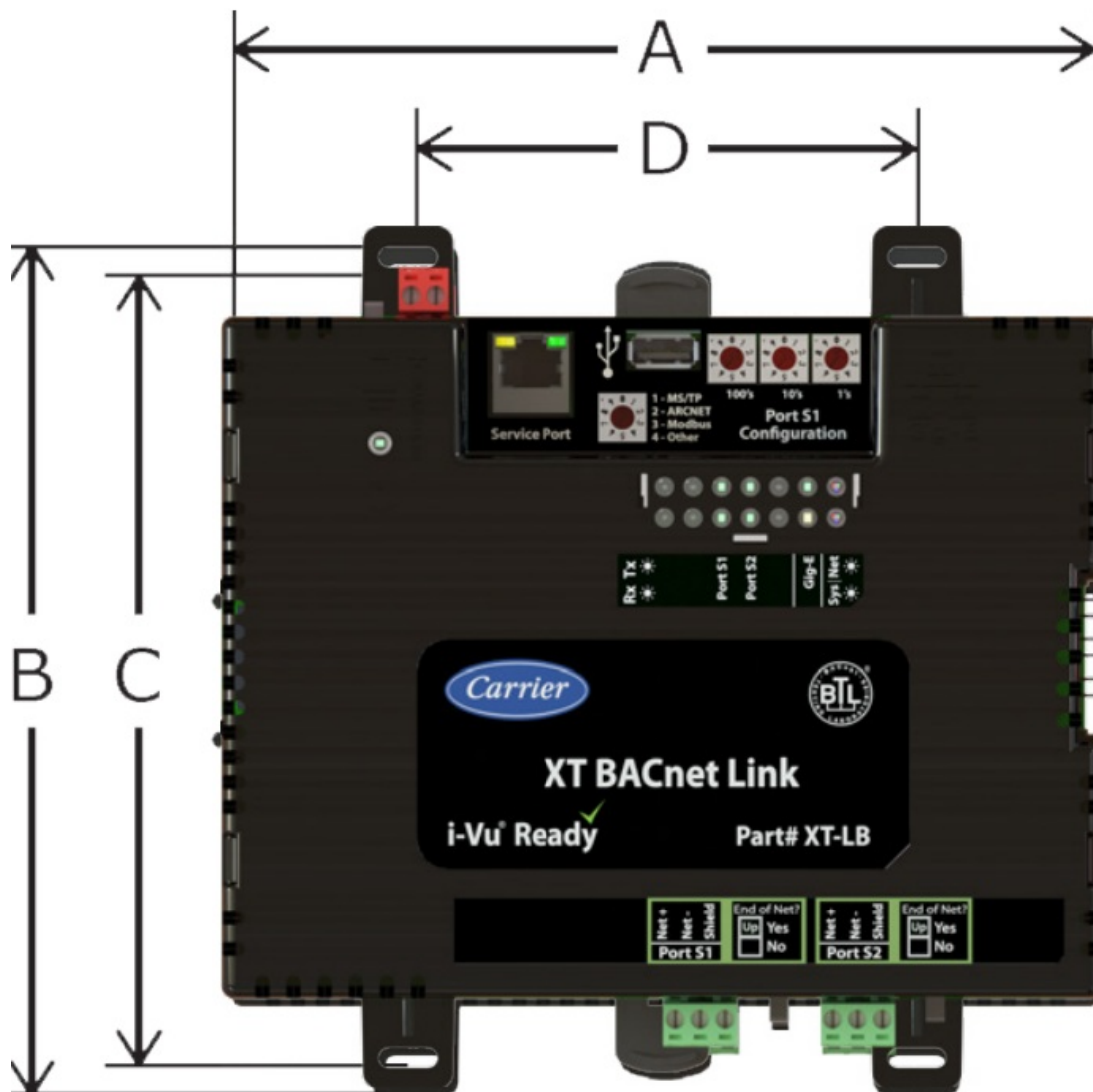
BACnet Support	Conforms to the BACnet Building Controller (B-BC), BACnet Router (B-RTR), and BACnet BBMD (B-BBMD) device profiles as defined in BACnet 135-2012 Annexe L, Protocol Revision 19
Power Requirements	24 VAC \pm 10%, 50-60Hz, 50 VA 26 VDC \pm 10%, 15W

Communication Ports	<p>Gig-E: 10/100/1000 BaseT Ethernet port for BACnet/IP, BACnet/Ethernet, BACnet/SC, and/or Modbus/IP networks</p> <p>Port S1: High-speed EIA-485 port for connecting one of the following network types: BACnet MS/TP or Modbus RTU network at 9.6, 19.2, 38.4, 57.6, 76.8, 115.2 kbps</p> <p>Port S2: Electrically EIA-485 port for connecting BACnet MS/TP or Modbus RTU network at 9.6, 19.2, 38.4, 57.6, 76.8, 115.2 kbps</p> <p>S1 and S2 end-of-net switches can be turned on to terminate the network segment</p> <p>Local Access: 10/100 Base T Ethernet port for system start-up and troubleshooting.</p>
Protection	<p>Device is protected by a replaceable, fast-acting, 250 Vac, 2A, 5 mm x 20 mm glass fuse. The power and network ports comply with the EMC requirements EN50491-5-2.</p>
Integration	<p>Maximum 1500 third-party BACnet points (BACnet/IP, BACnet MS/TP) and up to 500 Flex points (expandable to 5000 with Gen5 point packs) using Modbus/IP or Modbus RTU protocols. Supports integration with N2 Open, KNX, and SNMP protocols.</p>
Real Time Clock	<p>Real-time clock keeps track of time in the event of a power failure for up to 3 days.</p>
LED Status Indicators	<p>Tricolor NET LED to show network status, Tricolour SYS LED to show system status</p> <p>A TX (Transmit) and RX (Receive) LED for the following ports: Gig-E, Port S1, and Port S2.</p>
Router Addressing	<p>Rotary DIP switches set the address of the router</p>

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 and RoHS for Electrical and Electronic Equipment 2012.
Environmental Operating Range	Operating: 32 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
Physical	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:** 2.09 in. (5.31 cm)
- **Weight:** 1.1 lbs. (.482 kg)



For more information


- For more information, contact your local Carrier Controls Expert.
- Controls Expert Locator: www.carrier.com/controls-experts
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- The manufacturer reserves the right to discontinue or change at any time specifications or designs, without notice and without incurring obligations.
- Trademarks are properties of their respective companies and are hereby acknowledged.

FAQ

- **Q: How many third-party BACnet points can the XT-LB support?**
 - **A:** The XT-LB can support a maximum of 1500 third-party BACnet points (BACnet/IP, BACnet MS/TP) and up to 500 Flex points (expandable to 5000 with Gen5 point packs).

- **Q: What is the backup time of the real-time clock in case of a power failure?**
 - **A:** The real-time clock can keep track of time in the event of a power failure for up to 3 days.
- **Q: How can I locate a Carrier Controls Expert for more information?**
 - **A:** You can visit www.carrier.com/controls-experts to find a Controls Expert near you.

Documents / Resources

	Carrier XT-LB i-Vu Building Automation System [pdf] Instructions XT-LB i-Vu Building Automation System, XT-LB, i-Vu Building Automation System, Building Automation System, Automation System
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References

- [User Manual](#)

Carrier

Automation System, Building Automation System, Carrier, i-Vu Building Automation System, XT-LB, XT-LB i-Vu Building Automation System

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