

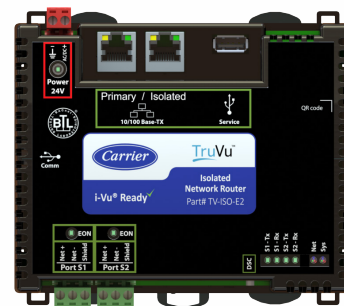


# i-Vu<sup>®</sup> Building Automation System

## TruVu<sup>™</sup> Isolated Network Router

Part Number: TV-ISO-E2

TruVu

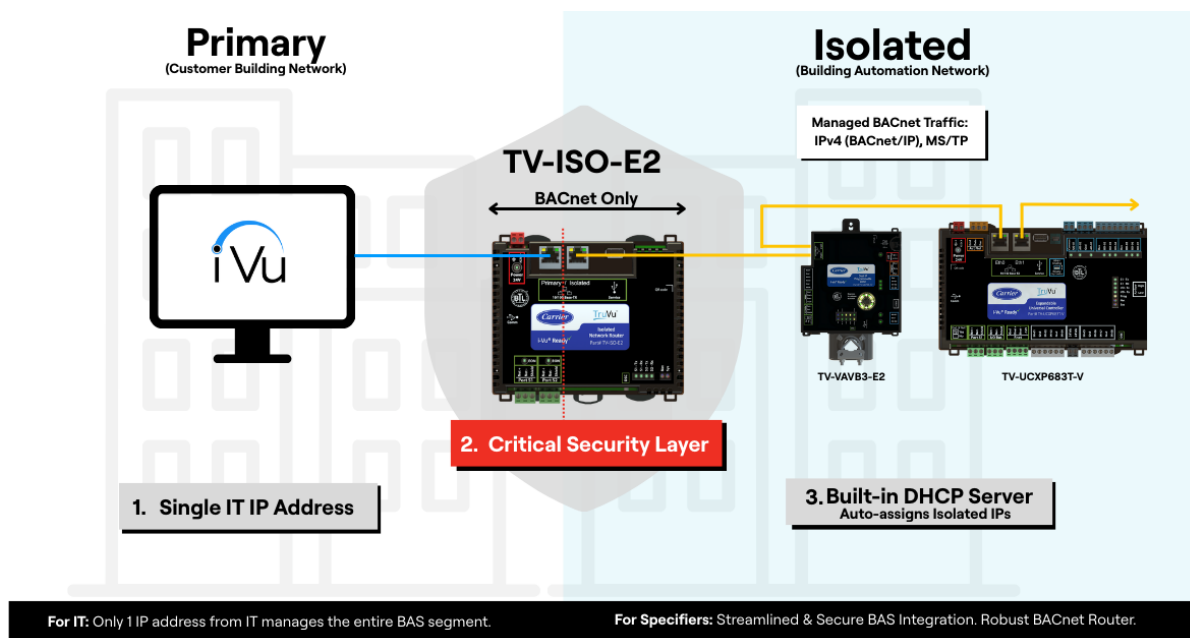


Carrier's TruVu Isolated Network Router is the essential router that connects diverse BACnet networks (IP, Ethernet, BACnet Secure Connect, and MS/TP). It provides a critical security layer, isolating your building automation network from external IP traffic. This ensures reliable BACnet communication and enhances security, reducing IT complexity and providing a robust foundation for your building automation system.



### Features and Benefits

- **Enhanced Network Security:** Isolates the building automation network from the broader customer network, creating a robust security layer (firewall) designed to significantly reduce the risk of unauthorized access and mitigate various cyber threats.
- **IT Friendly:** Only one IP address required to connect to all the devices on the isolated network.
- **Streamlined Deployment:** Includes a built-in DHCP server that automatically assigns isolated IP addresses, simplifying network configuration and reducing installation time.
- **Robust Routing Capability:** Seamlessly integrate your system by routing BACnet across all common network types, including IP, Ethernet, BACnet Secure Connect (SC), and MS/TP, ensuring compatibility with both existing and future infrastructure.
- **Flexible Network Connections:** Includes 1 primary Ethernet port for IP/Ethernet/SC, 1 isolated Ethernet port for BACnet/IP, and 2 EIA-485 ports (both for BACnet MS/TP only).
- **Easy Configuration and Recovery:** A dedicated USB port for system setup.
- **Advanced Diagnostics:** Captures network data and statistics for efficient troubleshooting and optimizing system performance.
- **Optimized Broadcast Communication:** Functions as a BACnet Broadcast Management Device (BBMD) to manage broadcast communication efficiently on BACnet/IP networks, reducing traffic, and improving response times.
- **Simplified BACnet Device Integration:** Supports Foreign Device Registration (FDR), enabling automatic discovery and registration of third-party BACnet devices to streamline communication within the BACnet network.
- **Compact Footprint:** Designed for easy installation, optimizing control panel space.



# TruVu Isolated Network Router

Part Number: TV-ISO-E2



## Specifications

<b>BACnet Conformance</b>	Conforms to the BACnet Router (B-RTR) and BACnet Broadcast Management Device (B-BBMD) profiles as defined in Annex L of the BACnet standard. The device is certified to the BACnet standard ISO 16484-5 protocol revision 1.19 and protocol revision 19 (135-2016). Please see BTL listing page <a href="https://www.bacnetinternational.net/btl/index.php?m=28">https://www.bacnetinternational.net/btl/index.php?m=28</a> for details.
<b>i-Vu Version</b>	Compatible with i-Vu Version 9.0 or later
<b>Power Requirements</b>	24 Vac $\pm 10\%$ , 50–60 Hz, 50 VA 24 Vdc $\pm 10\%$ , 18 W
<b>Communication Ports</b>	<b>Primary Port:</b> 10/100 BaseT, full duplex, Ethernet ports for BACnet/IP, BACnet/IPv6, BACnet/Ethernet, BACnet/SC communication. <b>Isolated Port:</b> 10/100 Mbps BaseT, full duplex, Ethernet port for BACnet/IP <b>Port S1:</b> High-speed EIA-485 port for communication with BACnet MS/TP network at 9,600 to 115,200 bps <b>Port S2:</b> High-speed EIA-485 port for communication with a BACnet MS/TP network at 9,600 to 115,200 bps. End of Net termination can be set to Yes to terminate the network segment. <b>Service port:</b> USB 2.0 port for setting up the router and troubleshooting through a local connection to a computer, connecting to the Equipment Touch, or a wireless service adapter.
<b>Environmental Operating Range</b>	-40 to 158°F (-40 to 70°C), 10–95% relative humidity, non-condensing. The TV-ISO-E2 can be installed both inside and outside the building envelope. It should be placed in a UL listed enclosure. If installed outside, the enclosure must be suitable for the environmental conditions.
<b>LED Status Indicators</b>	Tricolor <b>NET</b> LED to show network status / Tricolor <b>SYS</b> LED to show system status/ <b>POWER</b> LED/ <b>S1 EON</b> LED/ <b>S2 EON</b> LED/A <b>TX</b> (Transmit) and <b>RX</b> (Receive) LED for: Port S1 and Port S2
<b>Router Addressing</b>	Webserver interface
<b>Memory</b>	8 GBs eMMC Flash memory (120 MB available for use) and 512 MB DDR3 RAM. User data is archived to non-volatile Flash memory when parameters are changed, every 90 seconds, and when the firmware is deliberately restarted.
<b>Real Time Clock</b>	Real-time clock keeps track of time in the event of a power failure for up to 3 days.
<b>Compliance</b>	<b>United States:</b> FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment; UL Listed to UL864: Smoke Control System. <b>AS/NZS:</b> RCM Mark 61000-6-3; <b>Canada:</b> UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; UL Listed to ULC-S527: Smoke Control System. <b>Europe/UKCA:</b> CEN50491-5-2:2009; Part 5-2: Compliant with Electromagnetic Compatibility Regulations - Gov. UK and RoHS for Electrical and Electronic Equipment 2012 RoHS Compliant: 2015/863/EU REACH Compliant
<b>Protection</b>	Device is protected by a replaceable, fast acting, 250 Vac, 3A, 5mm x 20mm glass fuse. The power and network ports comply with the EMC requirements EN50491-5-2
<b>Enclosure</b>	Fire-retardant ABS, UL94-5VA
<b>Mounting</b>	35mm DIN rail mounting or screw mounting

## Dimensions

### Overall

**A:** 5.51 in. (14 cm)  
**D:** 5.88 (14.93 cm)  
**E:** 4.41 (11.20 cm)  
**Depth:** 2.01 in. (5.11 cm)  
**Weight:** .75 lbs. (.3402 kg)

### Screw Mounting

**B:** 3.00 in. (7.62 cm)  
**C:** 5.29 in. (13.44 cm)

