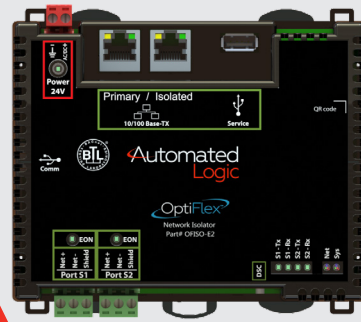


OPTIFLEX™ NETWORK ISOLATOR

BACNET ROUTER WITH IP ISOLATION

Part # OFISO-E2

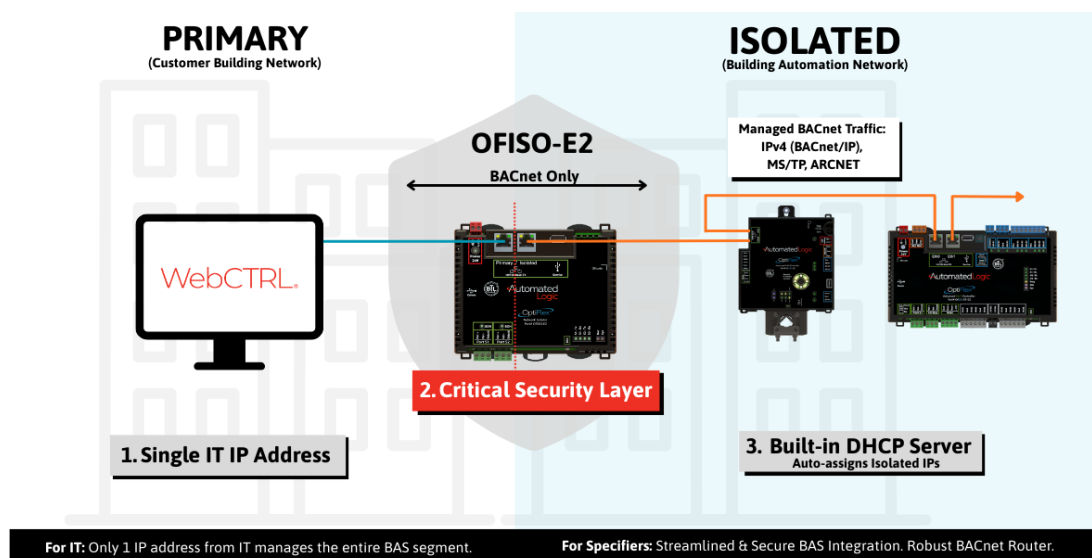


Automated
Logic

Automated Logic's OptiFlex Network Isolator is the essential router that connects diverse BACnet networks (IP, Ethernet, BACnet Secure Connect, ARCNET, 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.

KEY 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), MS/TP, and ARCNET, 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 (one for BACnet/ARCNET, one for BACnet MS/TP).
- **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.



WebCTRL

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

SPECIFICATIONS

Part # OFISO-E2	
BACnet Conformance	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 https://www.bacnetinternational.net/btl/index.php?m=11 for details.
WebCTRL version	Compatible with WebCTRL v9.0 or later.
Power	24 Vac $\pm$ 10%, 50–60 Hz, 50 VA 24 Vdc $\pm$ 10%, 18 W
Communication	
Primary Port	10/100 Mbps BaseT, full duplex, Ethernet port for BACnet/IP, BACnet/IPv6, BACnet/Ethernet and/or BACnet/SC
Isolated Port	10/100 Mbps BaseT, full duplex, Ethernet port for BACnet/IP
Port S1	High-speed EIA-485 port for communication with either of the following BACnet protocols: • A BACnet ARCNET network at 156 kbps • A BACnet MS/TP network at 9,600 to 115,200 bps
Port S2	Electrically isolated EIA-485 port for communication with a BACnet MS/TP network at 9,600 to 115,200 bps
Service Port	USB 2.0 port for setting up the controller and troubleshooting through a local connection to a computer, connecting to the OptiPoint interface, or a wireless service adapter
Microprocessor	32-bit ARM Cortex-A8, 600 MHz, processor with multi-level cache memory
Rnet Port	Future capability.
Environmental Range	-40 to 158°F (-40 to 70°C), 10–95% relative humidity, non-condensing. The controller 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.
Memory	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.
Real Time Clock	Real-time clock keeps track of time in the event of a power failure for up to 3 days
Compliance	United States: 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. AS/NZS: RCM Mark 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; UL Listed to ULC-S527: Smoke Control System. Europe/UKCA: 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
Protection	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
Enclosure	Fire-retardant ABS, UL-94-5VA
Mounting	35mm DIN rail mounting or screw mounting

Figure 1: Physical Dimensions

Overall	in.	cm
A:	5.51	14
D:	5.88	14.93
E:	4.41	11.20
Depth:	2.01	5.11
Weight:	.75 lbs	0.34 kg
Screw Mounting		
B:	3.00	7.62
C:	5.29	13.44

