OPTIFLEX™ COMPACT SEGMENT ROUTER

Automated Logic

ROUTER FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

The OptiFlex Compact Segment Router (OFCSR-E2) is designed to facilitate seamless migration from traditional serial network segments to fast and performant IP backbones. The OFCSR-E2 features dual IP ports for convenient daisy-chain deployment and offers robust routing capabilities between BACnet/IP, BACnet/Ethernet, BACnet/ARCnet, and BACnet MS/TP networks. It also features a compact footprint for more flexible system design.

OptiFlex™

KEY FEATURES AND BENEFITS

Hardware Features

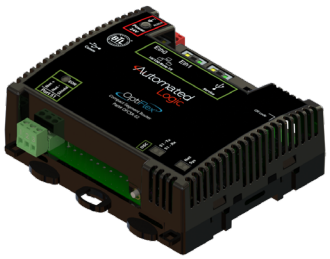
- Supports IPv4 networks
- Two 10/100 Mbps ethernet ports with fail-safe relay
- Web server local access for configuring networks, alarms, notifications, etc.
- Capacitor-backed real-time clock keeps time in the event of power failure or network interruption for up to three days
- Compact and rugged plastic enclosure for easy DIN-rail or panel mounting
- One MS/TP/ARCnet port supporting speeds from 9.6 to 115.2 Kbps for MS/TP or 156 Kbps for ARCNET
- USB service port for local service: connect PC via a hard-wired connection or wirelessly using a USB-W adapter
- Smaller form factor simplifies installation and optimizes space

System Benefits

- Connects seamlessly to the WebCTRL building automation system

BACnet Features

- Includes three physical communication ports: two 10/100 Mbps BACnet IP/Ethernet ports, and one high-speed EIA-485 port for BACnet/ARCnet or BACnet/MS/TP
- Conforms to the BACnet Router B-RTR and BBMD standard device profiles
- 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)



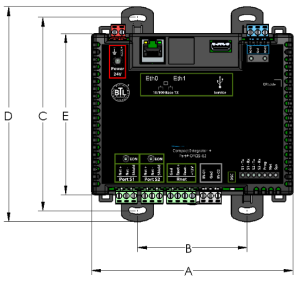
WebCTRL®

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 #	OFCSR-E2 OptiFlex Compact Segment Router
BACnet Conformance	BTL Tested and conforms to the BACnet Building Controller (B-BC), BACnet Router (B-RTR) Standard Device profile and BACnet BBMD (B-BBMD) Device Profile as defined in BACnet 135-2016 Annex L and listed to Protocol Revision 15
Power	24 Vac +/- 10%, 50 - 60 Hz, 50 VA | 26 Vdc +/- 10%, 18W
Communication	
BAS Port Eth0 / Port Eth1	Dual, 10/100 Base T, full duplex, Ethernet ports with built-in fail safe
Port S1	For communication with either of the following: BACnet ARCnet network at 156 kbps 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
USB Comm Port	USB 2.0 host port supports communicating expansion modules
Status Indicators	LED's indicate status of communications, running, errors, and power
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.
Physical	Fire-retardant plastic ABS, UL94-5VA
Memory	16 GB's eMMC Flash memory (120 MB available for use) and 512 MB DDR3 DRAM.
Real Time Clock	Real-time clock keeps track of time in the event of a power failure for at least 3 days
Compliance	**United States:** FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed to UL916, PAZX, Energy Management Equipment; **AS/NZS:** RCM Mark, IEC 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; **Europe:** CE Mark Compliant, RoHS Compliant: 2015/863/EU; **UKCA** Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012, REACH compliant
Microprocessor	32-bit ARM Cortex-A8, 600 MHz, processor with multi-level cache memory
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
Mounting	35mm DIN rail or screw mounting

Figure 1: Physical Dimensions



Overall	in.	cm
A:	5.51	14.00
D:	5.88	14.93
E:	4.41	11.20
Depth:	2.01	5.11
Mounting		
B:	3.00	7.62
C:	5.29	13.44
Weight:	.75 lbs	0.3402 kg

Assembled in the United States

Automated Logic

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