AAR

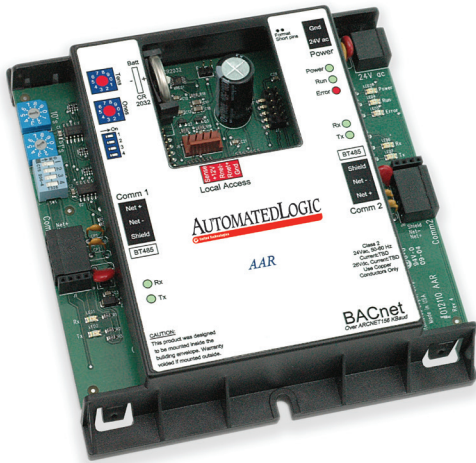## High Speed ARCNET to ARCNET Router

The ARCNET to ARCNET Router (AAR), is an integral component of the WebCTRL® building automation system.

The AAR is designed to expand or segment high speed ARCNET 156 kbps networks. AAR's can be installed on native BACnet control networks that utilize ME, SE and ZN controllers. Conveniently housed in a rugged and compact enclosure for panel mounting, the AAR is designed with two ARCNET 156 kbps communication ports.

System Architecture

Key Features and Benefits

· Two isolated high speed ARCNET 156 kbps communication ports offering cost effective expansion of ARCNET control networks

· Expands number of controllers that may be routed through an LGR, ME-LGR, or ME line controller

· Allows segmentation of control networks for maintenance and redundant configurations

· Rotary DIP switches for ease of setting network addresses

· Built-in surge and transient protection for ARCNET control networks

· Compact and rugged plastic enclosure for easy panel mounting
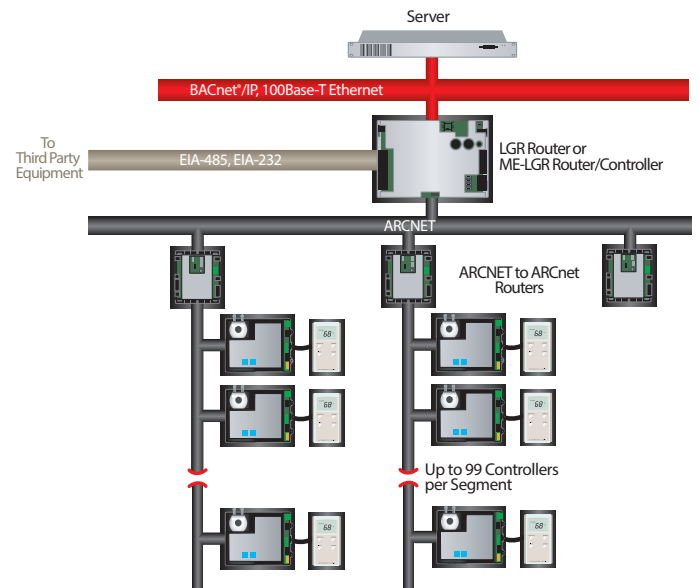
The WebCTRL® building automation system gives you the ability to understand your building operations and analyze the results. WebCTRL integrates environmental, energy, security and safety systems into one powerful management tool that allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations. Our web-based platform allows building managers to control and access information about their HVAC, lighting, central plant and critical processes on premises or remotely at any time of day.

We make data **big.**™
Next level building automation engineered to help you make smart decisions.

AAR

Specifications

Communication Ports:	The following ports are available on the AAR: **Comm 1:** EIA-485 port for connecting to the ARCNET 156 kbps backbone network. **Comm 2:** EIA-485 port for connecting the AAR's ARCNET 156 kbps network Local access port for system start-up and troubleshooting
Microprocessor:	High-speed 16-bit microprocessor with ARCNET communication co-processor
Memory:	1 MB non-volatile battery-backed RAM, 1 MB Flash memory, 16-bit memory bus
Real-time Clock:	Battery-backed real-time clock keeps track of time in event of power failure
Battery	10-year Lithium CR2032 battery retains the following data for a maximum of 10,000 hours during power outages: time and editable properties.
Protection	Incoming power and network connections are protected by non-replaceable internal solid-state polyswitches that reset themselves when the condition that causes a fault returns to normal. The power and network connections are also protected against transient excess voltage/surge events lasting no more than 10 msec.
Status Indicators:	LED status indicators for EIA-485 communication, running, error, and power
Module Addressing:	Rotary dip switches for intuitive network addressing of module.
Listed by:	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15 – Subpart B – Class A, CE
Environmental Operating Range:	0° F to 130° F (-17.8° C to 54.4° C); 10 to 90% relative humidity, non-condensing NOTE: The controller must be installed within the building.
Power Requirements:	24 Vac ± 10%, 26 Vdc (25 V min, 30 V max), 50 - 60 Hz, 20 VA
Physical:	Rugged GE C2950 Cycoloy plastic
Weight	0.4 lbs (0.2 kg)
Dimensions:	Overall Width: 5-1/16 in. (12.9 cm) Height: 5-11/16 in. (14.4 cm) Depth: 1-1/2 in. (3.8 cm) min. panel depth

Mounting
5-9/16 in. (14.1 cm) between
mounting slot centerlines
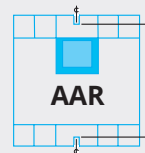
Mounting hole
spacing: 5-9/16 in.

AAR

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