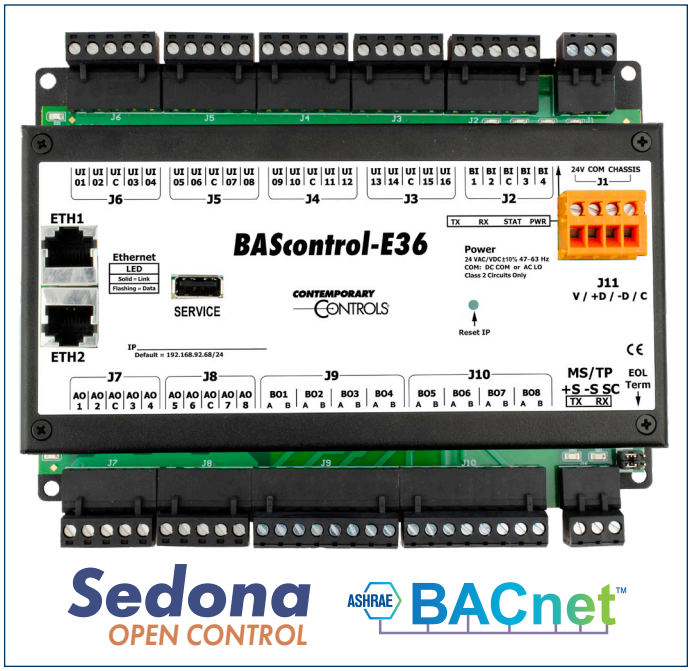
CONTEMPORARY CONTROLS®

BAScontrolE36 VAV Air-Handler Edge Controller



Product Overview

The BAScontrolE36 VAV Air-Handler Edge Controller is based on the design of the RTU38 Advanced Rooftop Controller which is intended for energy optimization utilizing advanced control sequences in rooftop units. The two products differ in I/O count and mix, with the BAScontrolE36 designed for the requirements of ASHRAE Guideline 36-2018 High-Performance Sequences of Operation for HVAC Systems (GL-36), while the RTU38 was designed for the specific needs of the OEM.

The BAScontrolE36 has the necessary computing power and input/output (I/O) point count to execute recommended advanced sequences published in GL-36. The BAScontrolE36 utilizes BACnet protocol for communication, and Sedona for control logic on a Linux platform. Included in the BAScontrolE36 controller's codebase are edge-connected features such as a cloud connector to Azure IoT Central, a JavaScript Object Notation (JSON)-node programable dashboard, email alarming and notifications, and access to an online weather service.

Versatile Monitor or Controller Device

- BACnet/IP and BACnet MS/TP client/server
- BACnet B-ASC device profile
- Web page configuration
- Sedona Programmable
- Programmable with free BAScontrol Toolset
- Configurable with a common web browser
- Built-in 10/100 Mbps Ethernet two-port switch
- Wi-Fi Connectivity (external USB to Wi-Fi adapter required)
- NTP or manually settable real-time clock
- COV subscriptions — a mix of 230 binary or analog
- Azure IoT Central connector
- JSON-node dashboard
- Email alarms and notifications
- Built-in API to openweathermap.org
- Wide operating temperature range of -40°C to +75°C

Product Details

The BAScontrolE36 is a 36-point edge controller which supports BACnet/IP client/server operation using a 2-port Ethernet switch connection or over BACnet MS/TP using a serial port. The controller complies with the B-ASC device profile having a convenient mix of sixteen universal inputs, four binary inputs, eight analog outputs, and eight binary outputs. The BAScontrolE36 uses screw terminal block connectors.

The device is fully web page-configurable, and freely programmable using Sedona's drag-and-drop programming methodology of assembling components onto a wiresheet to create applications. The unit can be programmed using the Sedona Application Editor (SAE) in Contemporary Controls' free BAScontrol Toolset. Rugged design, low profile, and wide temperature operation make it suitable for indoor or outdoor use.

Flexible Inputs and Outputs

- Conventional screw terminal block connectors
- Sixteen configurable universal inputs
- Four voltage-free binary inputs
- Eight 0-10 VDC analog outputs
- Eight relay outputs

Application Ready

- 1 GHz TI AM3352 processor
- 512 MB RAM memory
- 5 GB eMMC memory
- Non-volatile FRAM memory for storing runtimes and pulses
- Linux Operating System
- 24 VAC/VDC powered

Ordering Information

Model	*RoHS*	*Description*
BASC-E36	✔	VAV Air-Handler Edge Controller

Worldwide Locations

United States
Contemporary Control Systems, Inc.
2431 Curtiss Street
Downers Grove, IL 60515 USA
+1 630 963 7070
info@ccontrols.com

Germany
Contemporary Controls GmbH
Fuggerstraße 1 B
04158 Leipzig
Germany
+49 341 520359 0
ccg.info@ccontrols.com

United Kingdom
Contemporary Controls Ltd
14 Bow Court
Fletchworth Gate
Coventry CV5 6SP
United Kingdom
+44 (0)24 7641 3786
ccl.info@ccontrols.com

China
Contemporary Controls (Suzhou) Co. Ltd
19F, Metropolitan Towers,
No.199 Shishan Road,
Suzhou New District,
215009 China
+86 512 68095866
info@ccontrols.com.cn