# We're Celebrating 40 Years in Control

40 years in control

2015
2010
2005
2000
1995
1990
1985
1980
1975

Thank you for visiting Contemporary Controls at the recent Haystack Connect 2015 and the Cochrane Supply 2015 Niagara Mini-Summit. In case we weren't able to answer all of your questions about our BASautomation and CTRLink products, we encourage you to visit our website at **www.ccontrols.com** to learn about our proven solutions for the building automation industry.

Contemporary Controls serves the building automation industry with products based upon open standards such as BACnet, Modbus and Ethernet. Our customers are systems integrators, contractors and mechanical and controls OEMs seeking simple and reliable networking and control products from a dependable source. BASautomation®– Building on BACnet® provides routing, gateway and control solutions compatible with an internationally recognized building automation standard. CTRLink® – Ethernet Built for Buildings consists of unmanaged and managed switches, media converters, and wired and wireless IP routers. These products are designed for unattended operation in environments not conducive to office grade equipment. With headquarters based in the US, we have operations in the UK, Germany and China with self-manufacturing in the US and China.

CONTEMPORARY CONTROLS®

The BASintegratorJ2 uses a subset of J2innovations's FIN stack to create a powerful, yet flexible intelligent gateway that integrates Modbus and BACnet points up to Project Haystack clients.

Built on Contemporary Controls' open automation Linux platform, the BASintegratorJ2 can discover points and apply Haystack tags to serve up to building supervisors such as Niagara's AX Supervisor.  Using an open and free Haystack driver in the AX Supervisor, the AX Supervisor only needs to know the IP address of the BASintegratorJ2s in the network for a seamless interface to all points on a job regardless of the type of point.   The result is an inexpensive, yet modern approach to building automation where access to structured data is critical.

Project Haystack is an open-source initiative that incorporates a data model that creates structure to this data through naming conventions.  The tagging convention is driven through public comment.  Using Project Haystack conventions, the BASintegratorJ2 not only provides structure to data but captures the data in a cost-effective manner while delivering tagged field data up to building supervisors.

A sophisticated graphical head-end can be found in the BASsupervisorDG5.   Powered by DGLogik, the BASsupervisorDG5 has a HTML5 user interface with impressive graphics along with trending, alarming and scheduling.  It is BACnet/IP compliant with two resident opto-isolated serial ports that can integrate to Modbus RTU as shown connected to a Cube I/O.  Using a standalone BASrouter, a connection is made to a BACnet MS/TP Cube I/O. A five-port Gigabit Ethernet switch facilitates IP connections.  In addition to wired connections, the BASsupervisorDG5 has two wireless ports – Wi-Fi and Enocean.  The BASsupervisorDG5 is ideal where a comprehensive head-end is required along with wired and wireless connectivity options.

For small to medium-sized systems, the BASsupervisorDG5 can function as a stand-alone building controller.  Flexibility is achieved through the two opto-isolated serial ports which can be individually configured for either Modbus RTU or BACnet MS/TP.  Depending on serial port loading, it is possible to eliminate the BACnet router.  With a built-in EnOcean Wi-Fi connectivity, flexibility extends beyond just a wired connection.
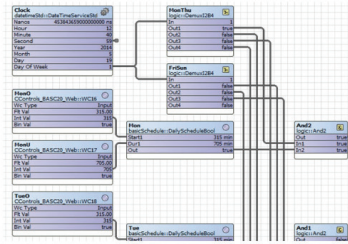
# Automation Platform

- **1.2GHz ARM CPU**
- **512MB DDR2 RAM**
- **8GB eMMC Flash Memory**
- **Five-port GigE Switch**
- **Two Isolated EIA-485 Ports**
- **IEEE 802.11b/g/n/Wi-Fi**
- **EnOcean Wireless**
- **24 VAC/VDC Powered**
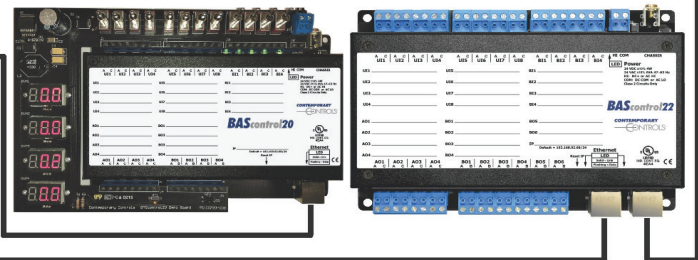- **DIN-rail Mountable**

## CONTEMPORARY CONTROLS® — BASautomation®

# Sedona Open Controllers

- *BACnet/IP Compliant*
- *B-ASC Device Profile*
- *Sedona Virtual Machine*
- *22 Points of I/O*
- *Daisy-chain Ethernet Connection*
- *200 Component Wire Sheet*
- *Workbench or Sedona Tool Programming*
- *Webpage Configuration*

**sedona Open**    **BACnet /IP**

**BAScontrol20**
Demo Board

**BAScontrol22**
Unitary Controller

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Both the BASintegratorJ2 and the BASsupervisorDG5 run on the powerful Automation Platform with a 1.2Ghz ARM9 processor, 512MB RAM and up to 8GB eMMC on-board flash memory.   A built-in five-port Ethernet switch eliminates the need for a separate Ethernet switch in the panel.   Two optically-isolated EIA-485 serial ports can connect to either BACnet MS/TP or Modbus RTU networks. BACnet/IP and Modbus TCP are supported via Ethernet ports.  The unit supports IEEE 802.11b/g/n Wi-Fi and EnOcean wireless as an option.  The compact unit operates from a 24 VAC/VDC supply and is DIN-rail mountable intended for standard control panels.

The Automation Platform is intended as an OEM platform for the building and industrial automation industries. Its design is flexible in both hardware and software and powerful enough to serve in a supervisor, integrator or router application.  Pre-loaded with a Linux OS, it can be modified by our technical staff to meet just about any requirement.  Manufactured in either our U.S. or China plant, it will carry the necessary regulatory approvals for the industry being served.

The BAScontrol22 Unitary Controller is a good example of an open controller in that it embodies the attributes of an open controller as defined by Contemporary Controls.  It is BACnet/IP compliant and incorporates a Sedona Virtual Machine.  It can be programmed using Niagara Workbench or with a Sedona Tool.  It is available to any systems integrator without restriction.

By having an Ethernet connection, the BASC22 can easily connect to Niagara Workbench or a Sedona Tool for programming or to a web browser for configuration. A built-in 10/100 Mbps Ethernet switch allows for a daisy-chain connection to the next-in-line controller or to a building supervisor.  Besides having 66 Sedona components from Tridium, it has 100 custom components from Contemporary Controls.  These include 48 web components that can be viewed and manipulated by a web browser, and 24 virtual points that can be read or written by a BACnet client.

The BAScontrol20 Demo Board is ideal for training and simulation by having inputs and outputs pre-wired to physical points.  Applications can be tested before being deployed in the field.

## Solutions for OEM's

Contemporary Controls has been providing solutions for OEM's for 40 years and is a leading network automation provider of Original Design Manufacturing (ODM) services. From our vast experience, we have developed the right mix of contract manufacturing capabilities to meet all of your ODM needs.

With four decades of experience in electronics design, development and manufacturing, we have a rich inventory of intellectual property that can be tapped for your next project. Our design and manufacturing locations provide private label, ODM and electronics manufacturing services.

Our ODM manufacturing process is configurable and very competitive. We utilize lean principles throughout the product life-cycle process and have a just-in-time based, mixed mode manufacturing and service operation that enables us to be available and ready to support high volume, low complexity products, and low volume, high complexity products.

Our customers' success comes from our ability to provide the flexibility, responsiveness, creativity, and cost-effectiveness needed to meet or exceed time-to-market and profitability objectives.

## Our 40th Anniversary Gift to You

While at Haystack make sure to pick up a **FREE copy** of *Network Communications for Buildings!*

We believe all companies benefit if we effectively educate the industry on the best use of open-system technologies. That is why we put together this book – *Network Communications for Buildings* – from a collection of prior articles from our Extension and Essentials that were supplements to our print newsletters beginning in 1999. All the articles have been updated to the latest practice so now the best material on network communications can be found in one concise book. We hope you enjoy the book and find it informative. You can download the book at: www.ccontrols.com/ncb

**Network Communications for Buildings**
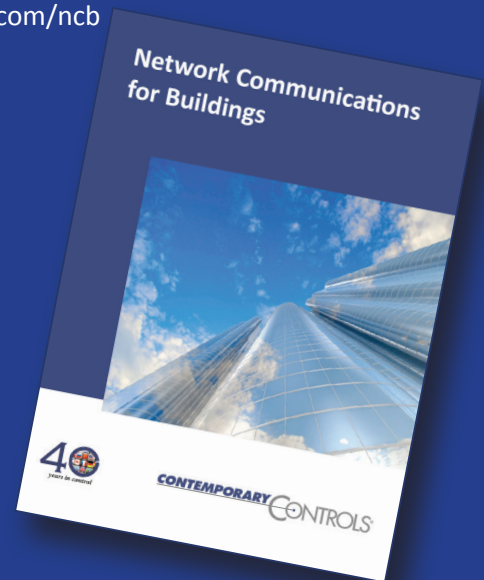
**BAS**automation®
**Building on BACnet®**

**CTRLink®**
**Ethernet Built for Buildings**

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