Thank you for visiting Contemporary Controls Booth #1326 at AHR 2016. 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/ahr** 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.
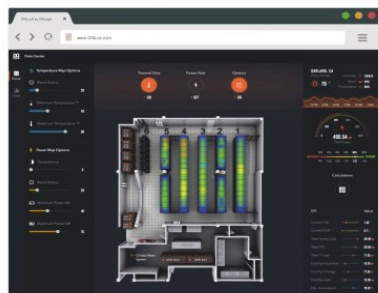
Embedded DGLux5 Supervisor

BASsupervisorDG5

- Alarming, Scheduling, Trending, Programming
- Powerful DGLux5 Graphics
- Project Assist
- 1.2 Ghz CPU, 8 GB Flash, 1 GB RAM
- 4-port GigE switch
- 1000+ points
- BACnet and Modbus Compatible
- EnOcean Support
- 2 Isolated EIA-485 ports
- Wi-Fi 802.11 b/g/n

Intelligent Gateway to Supervisor
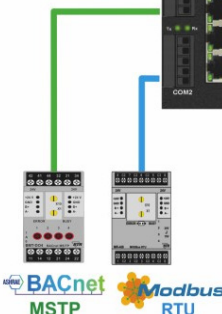
BASintegratorFIN

AX or N4 Supervisor

- Powerful Integration Device
- FIN Architecture
- 1.2 Ghz CPU, 8 GB Flash, 1 GB RAM
- 4-port GigE switch
- 1000 points
- BACnet and Modbus Compatible
- EnOcean Suppport
- 2 Isolated EIA-485 ports
- Wi-Fi 802.11 b/g/n

A sophisticated graphical head-end can be found in the BASsupervisorDG5 — an Embedded DGLux5 Supervisor built on Contemporary Controls' open automation Linux platform. 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 optically-isolated serial ports that can integrate to Modbus RTU and BACnet MS/TP. A four-port Gigabit Ethernet switch facilitates IP connections to Modbus TCP and BACnet/IP servers. In addition to wired connections, the BASsupervisorDG5 has a built-in Wi-Fi port and supports EnOcean via a USB port to an attached USB 300 Gateway.

To speed the development of comprehensive DGLux5 graphics, Project Assist 2.0 is included with the product. Project Assist is a wizard that allows the user to quickly develop the necessary graphics for a project without an in-depth knowledge of DGLux5.

The BASsupervisorDG5 is a result of the cooperation between DGLogik and Contemporary Controls by incorporating DGLogik's Distributed Systems Architecture (DSA) into the design. DSA is an open source IoT platform that facilitates device inter-communication, logic and applications. The BASsupervisorDG5 is ideal where a comprehensive head-end is required along with wired and wireless connectivity options.

The BASintegratorFIN uses a subset of J2 Innovations'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 BASintegratorFIN can discover points and apply Haystack tags to serve up to building supervisors such as Niagara's AX or N4 Supervisor.

Using an open and free Haystack driver in the AX or N4 Supervisor, the Supervisor only needs to know the IP address of the BASintegratorFIN 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 BASintegratorFIN not only provides structure to data but also captures the data in a cost-effective manner while delivering tagged field data up to building supervisors.

The BASrouter family provides stand-alone routing between BACnet networks such as BACnet/IP, BACnet Ethernet, and BACnet MS/TP — thereby allowing the system integrator to mix BACnet network technologies within a single BACnet internetwork. There are two physical communication ports on the BAS Router. One is a 10/100 Mbps Ethernet port and the other an optically-isolated MS/TP port. Configuration is accomplished via a web page. The BASrouterLX has the added feature of capturing MS/TP traffic for use by a Wireshark protocol analyzer. The Portable BASrouter is a convenience item for commissioning BACnet MS/TP devices in the field using BACnet/IP commissioning tools.

The BASgatewayLX provides standalone gateway functionality between Modbus RTU or Modbus TCP devices and BACnet/IP. Using the concept of Modbus device profiles, Modbus registers are mapped to BACnet objects. Using virtual routing, each Modbus device appears as its own BACnet device. To make it easy for our customers to integrate Modbus devices to BACnet, we have built over 100 Modbus profiles of equipment from leading companies which are accessible from our website. The customer only needs to install the required profiles and check off which points are to be scanned. If you cannot find the profile you need, we will be glad to make it for you.
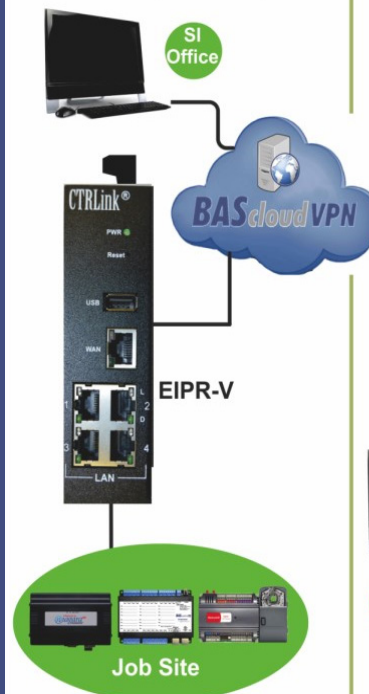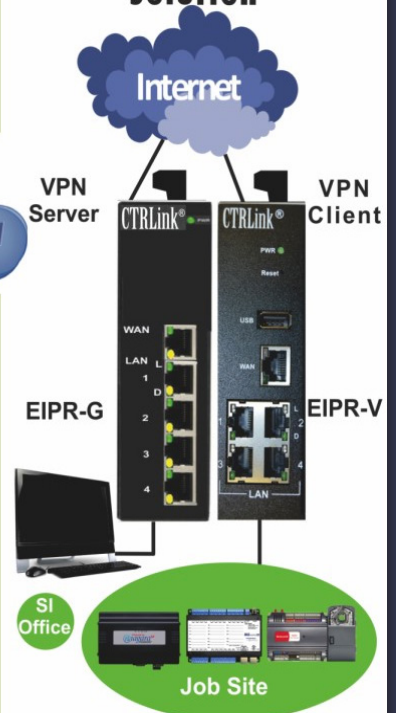
We offer two solutions for remote monitoring — one a cloud-based VPN solution and the other a client/server VPN solution that makes a direct connection over the Internet. Both solutions provide simple, secure, remote access for system integrators to check in and view what is happening at job sites thereby saving time and resources from not having to send technicians to job sites for every customer problem that occurs.

With the cloud-based VPN solution, the Contemporary Controls' hosted BAScloudVPN server provides the critical connection between two VPN clients – one installed on the system integrator's PC and the other permanently installed at the job site using Contemporary Controls' EIPR-V VPN router. Using this approach, two secure VPN tunnels are created with no concern for intervening firewalls.

With the VPN client/server approach, an EIPR-G VPN Server located at the system integrator's office replaces the cloud server. The EIPR-V remains installed at the job site, behind firewalls, acting as the VPN client. Using this approach, two secure VPN tunnels are created with the added requirement that the VPN server at the system integrator's office must be accessible via the Internet thereby requiring a public IP address.
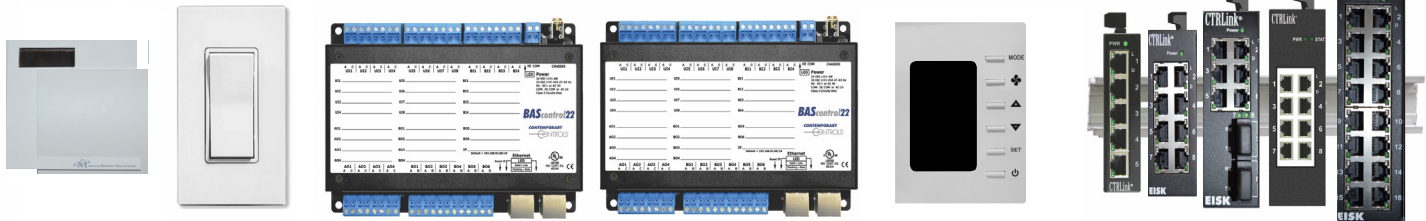
The **BAScontrol Series** is a line of BACnet unitary controllers compiling with the B-ASC device profile that support both BACnet/IP and Sedona Framework (SOX) protocols via an Ethernet connection. A resident web server allows controllers to be accessible via a common web browser. Controllers in the series support a common core of features and differ only by I/O count and network connections.

Each device in the series is a freely-programmable controller executing Sedona's drag-and-drop methodology of assembling components onto a wire sheet to create applications. They can be programmed using Niagara Workbench or a Sedona programming tool such as Contemporary Controls' Sedona Application Editor (SAE). Built on the Sedona Framework, Contemporary Controls has developed more than 100 custom Sedona components which complement the standard Tridium-developed Sedona 1.2 components that reside within the device. Unique to the BAScontrol series are 48 Web Components that allow wire sheet data to be read and written from a common web browser; and 24 Virtual Components that allow wire sheet data to be read and written from a BACnet client.

CTRLink – Ethernet Built for Buildings consists of unmanaged and managed switches, media converters, and wired and wireless IP routers. For simple systems, Plug-and-Play Switches will suffice. These products operate "right out of the box" and can be put into service without adjustments. Auto-negotiation is standard where data rate (10/100/1000 Mbps) and duplex (half or full) are set between link partners without user intervention. LED indicators identify link status. DIN-rail and panel-mounting are available, as is 24 VAC/VDC power.

More demanding applications require Managed Switches that support the simple network management protocol (SNMP) — providing data on the network's health and the ability to configure the network to meet the needs of the system.

An IP Router connects two Internet Protocol (IP) networks, passing necessary traffic while blocking all other traffic.

Contemporary Controls has worked with OEMs in obtaining UL 864 Control Units and Accessories for Fire Alarm Systems compliance using our Ethernet switches. By specifying a fire and smoke rated switch, achieving UL 864 system compliance is made easier.

BASautomation®
Building on BACnet®

CTRLink®
Ethernet Built for Buildings

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