BLUE RIDGE TECHNOLOGIES™

UNIFIED LIGHTING CONTROL

IT WORKS

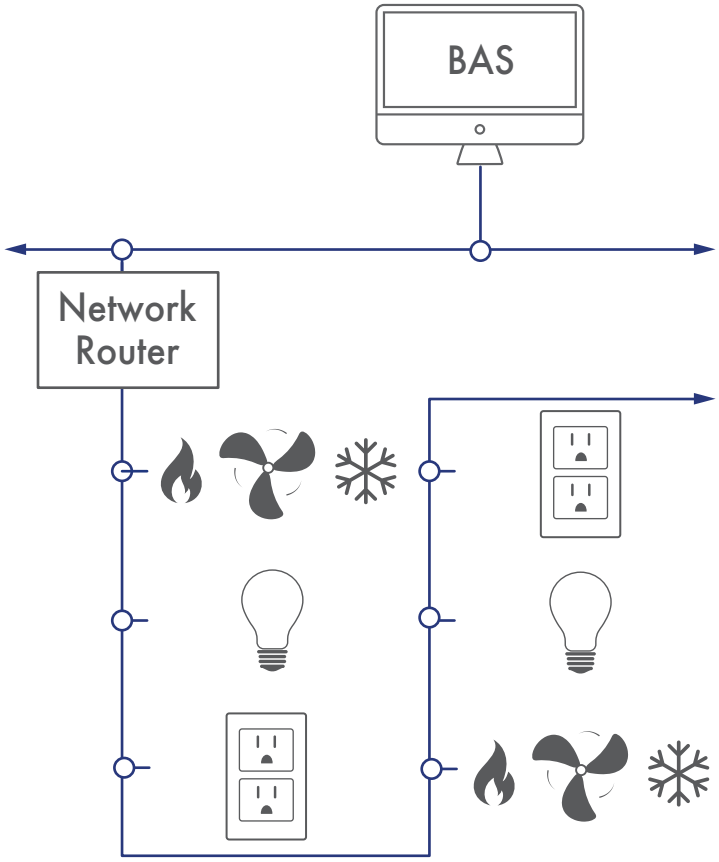
www.BRTINT.com

UNIFIED

Explore the Difference

Unified

- One Network
- One Point of Accountability
- One User Interface
- Wide Open Integration



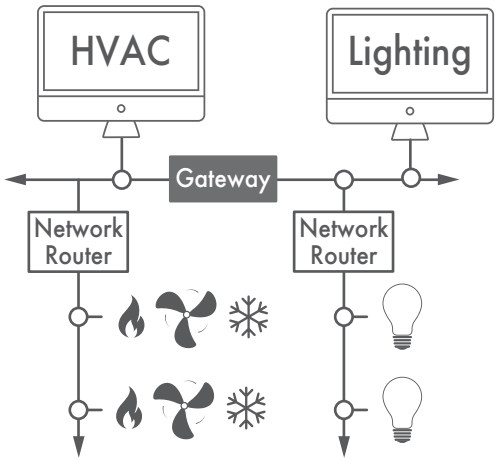
UNIFIED CONTROLS MAXIMIZE ENERGY SAVINGS AND RELIABILITY

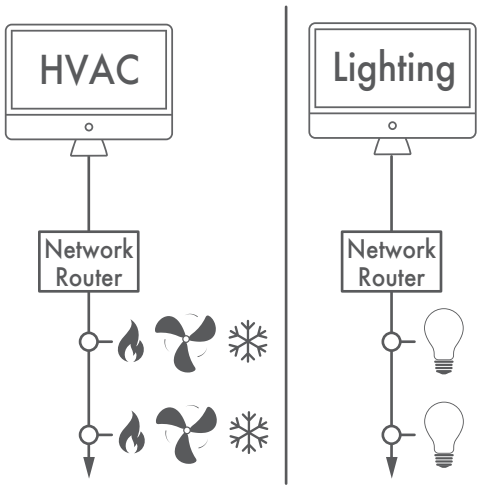
Blue Ridge Technologies' Unified control solutions provide maximum energy savings, and increased reliability, at a fraction of the cost of traditional systems.

By combining existing BACnet and other open protocol networks, along with our innovative modular designs, Blue Ridge has created a networkable solution that brings contemporary and legacy control systems into a Unified building automation platform. This approach leverages the system you already own to increase the energy and operational efficiency of your facility, while utilizing the same trusted local service provider you use today.

Gateway

- Separate Networks
- Separate User Interface
- Limited Integration





Stand Alone

- Separate Networks
- Separate User Interface
- No Integration

CONCLUSION

Unified Control facilitates more energy savings by eliminating the complexities of gateway systems, and the limitations of stand-alone controls.

For a complete Building Automation System (BAS), Unified Control is the best solution for your facility.

By Design

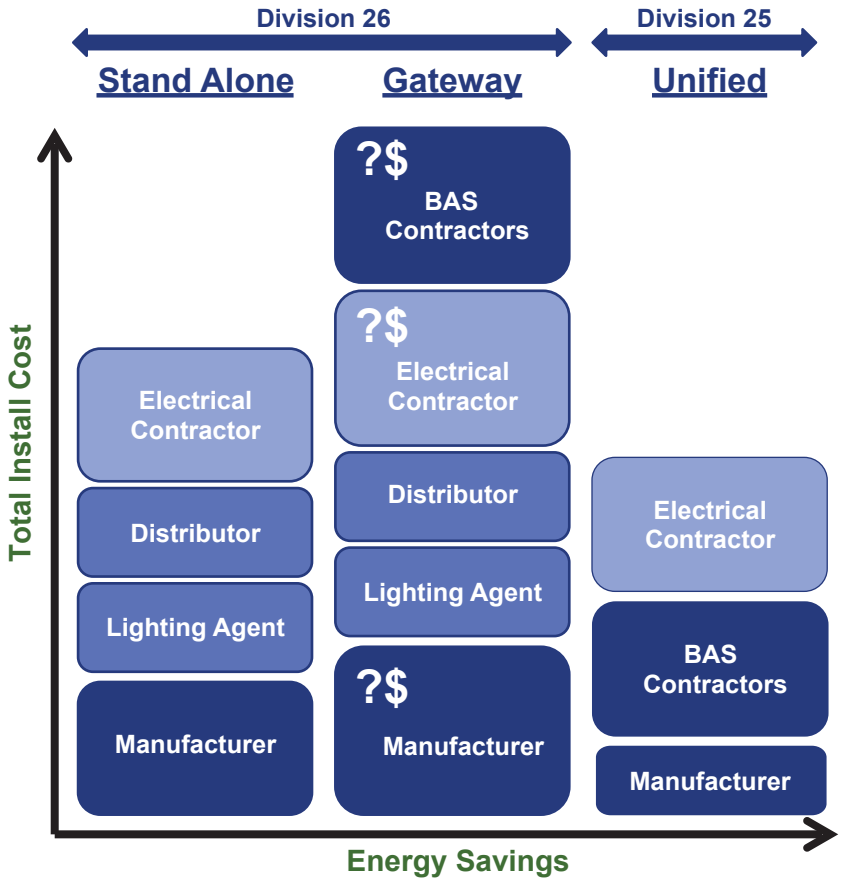
MAKE THE SWITCH TO A BETTER WAY

Utilizing traditional design and delivery methods makes integrating lighting control with Building Automation Systems (BAS) needlessly more expensive and risky. The Unified Control model achieves better results by empowering the right professionals to perform work within their area of expertise.

Simply stated: The BAS Controls Contractor furnishes the lighting control, and the Electrical Contractor installs the lighting control. This proven and effective approach eliminates integration uncertainty and provides a single point of responsibility for the system.

IMPORTANT DIFFERENCES

- Guaranteed Interoperability
- Guaranteed Sequences of Op
- Local Trusted Service Provider
- Reduces Risk Premiums
- Eliminates Scope Conflicts
- Free Firmware Upgrades

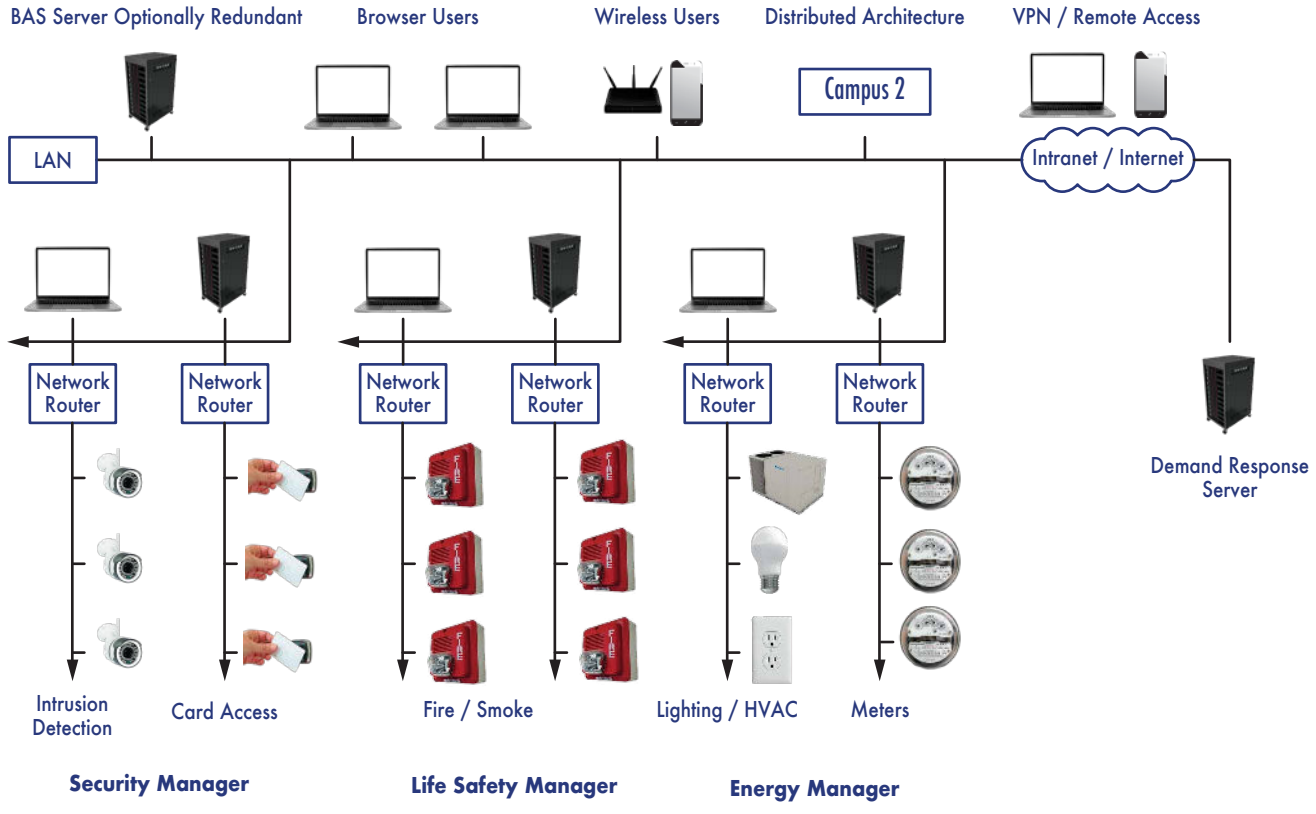


BENEFITS

Unified Control leverages the BAS infrastructure and the connectivity advancements already within the building enterprise.

- One Network
- One User Interface
- One Point of Accountability
- Wide Open Integration
- Web based Single user interface
- Profiles for multiple users
- Remote access via IP
- Reduce redundant hardware
- Leverages Existing Network Infrastructure
- Multi Protocol Support
- Share and trend all sensor information
- Maximize Energy Savings

UTILIZES THE BUILDING AUTOMATION SYSTEM



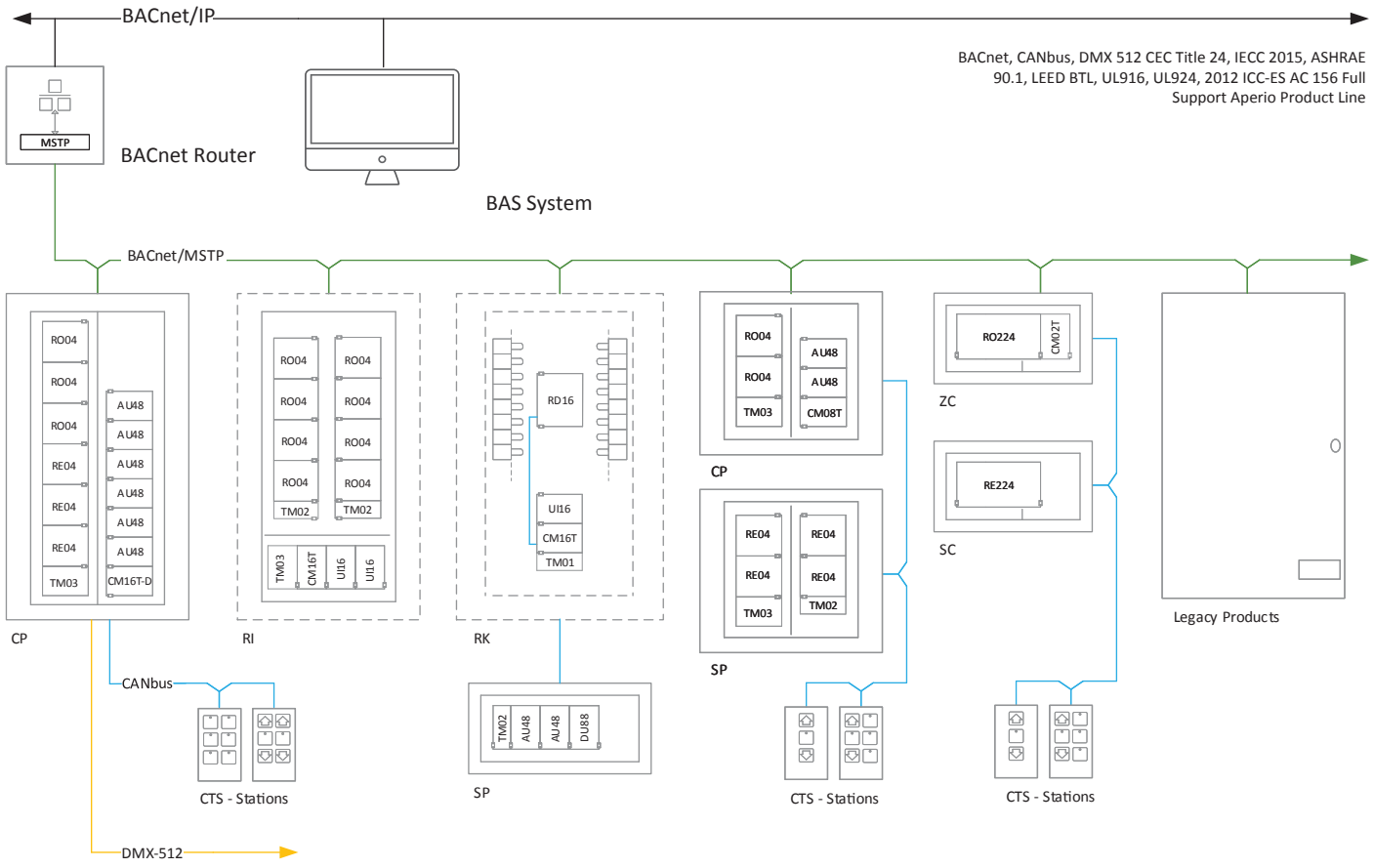
M3 PLATFORM
System Architechiture

Our platform is standards-based, open lighting control delivered as a unified solution through the building automation system.

Our platform enables the design of right-sized solutions across three dimensions:

- Application: The platform supplies powerful authoring tools to allow for running as many applications as your needs require.
- I/O: Acquire only the I/O you need to run your applications, with the ability to add more later if your needs grow.
- Packaging: Distribute your I/O with right-sized enclosures while allowing for further growth solutions.

Being able to easily scale one's needs along each of these dimensions delivers an easy to confiure-and-maintain solution, unsaddled with excess while affording for effortless future expansion.



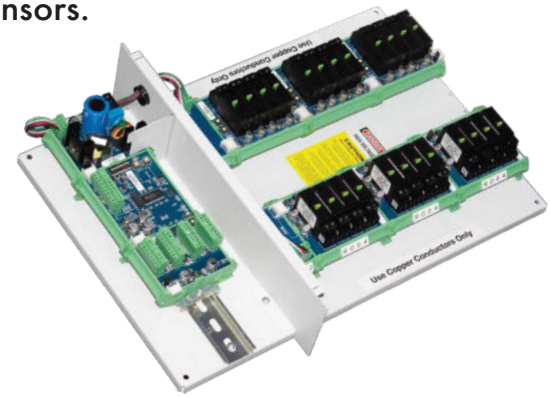
SOLUTIONS

Control Panel

The Control Panel (CP) utilizes our BACnet native platform, modular electronics suite, and DIN rail-based enclosure packaging to offer maximum flexibility in design and implementation of your lighting control application. CP is suited for new or existing building applications. CP scales from a single zone to an entire floor or large public area. CP communication type, size, and I/O capacity are fully configurable based on your specific project requirements.

Retrofit Interior

Retrofit Interiors (RI) utilize our native BACnet platform, modular electronics suite, and DIN railbased packaging on a single back plate to replace existing relay panel electronics and relays. RI retains the original line voltage wire, conduit, and enclosure reducing labor as well as material cost. RI is compatible with most low voltage switches, occupancy sensors, and light level sensors.

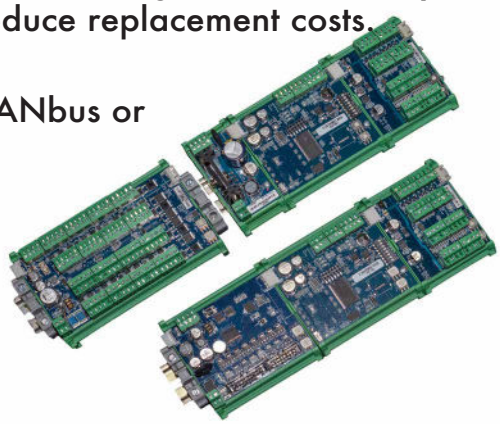


SOLUTIONS

Retrofit Kit

Retrofit Kits (RK) utilize our BACnet native Control and I/O Modules to replace multiple manufacturers lighting controls with flexible intelligence to exceed today's demanding application requirements. RK is designed around our universal relay driver modules RD16 and RD32 to leverage the existing infrastructure by retaining the relays, line voltage wire, and conduit to reduce replacement costs.

- Multi Manufacturer Relay Compatibility
- Modules can be combined via pluggable CANbus or remotely located
- Termination Modules and DIN Rail included
- I/O Expansion with Control Kits (CK)



The Control Kit (CK) expands and extends your systems by employing convenient collections of our pluggable Control, I/O and Termination modules.

- Termination Modules and DIN Rail included
- Approved for use in UL508A Industrial Control Panels
- Designed for use in existing RP and CP Low Voltage Bays
- Provides Retrofit Kit I/O Expansion for Dimming and Switch Inputs

Zone Control

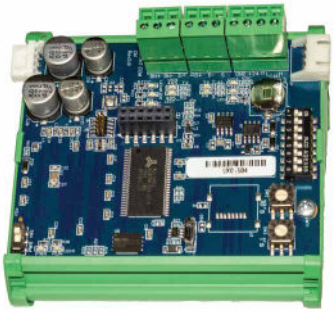
Zone Controls (ZC) utilize our native BACnet platform, modular electronics suite, and DIN rail-based enclosure packaging to offer a highly distributed lighting control soltion. ZC is suited for new or existing buildings, is compatible with all low voltage switches, occupancy sensors, and light level sensors.

Satellite Controls (SC) utilizes our modular electronics suite, and DIN rail-based enclosure packaging to expand I/O capacities of Zone Controls in highly distributed lighting control applications. SC is suited for new or existing buildings, is compatible with all low voltage switches, occupancy sensors, and light level sensors.

Control Module

CM is a BACnet Application Specific Controller that contains the control application engine, capacitive touch station (CTS) support, and network communications. CM is available in multiple configurations. Configuration is determined by I/O capacity requirements, primary network communication type, and optional protocol support. CM is a standard option for all control products. CM is combined with other modules via a pluggable CANbus to address specific application requirements.

- BACnet Communication
- Real-Time Clock with Battery Backup
- Battery Life of 10 Years
- Rotary Dial Addressing
- Remote Configuration
- Time Sync
- Field Replaceable Firmware
- CANbus Communication



Software and Firmware

Essentials software is a free tool to configure, checkout, and start up all M3 products. For the latest software, firmware, and support, please visit us at www.brtint.com

TM01

TM01 is a low voltage power supply and physical termination module. TM01 is a standard option for all control products. TM01 is combined with other modules via a pluggable CANbus to address specific application requirements. TM01 provides 24VDC power and terminals for CANbus access and extension in remote mounting application.

- Standard RP Option or Remote Mounting
- DIN Rail Mounted
- Provides Physical Termination Point for CANbus Network and Expander module power

TM02

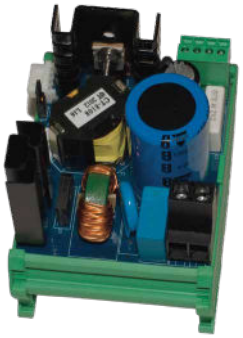
TM02 is a physical termination module. TM02 is a standard option for all control products. TM02 is combined with other modules via a pluggable CANbus to address specific application requirements. TM02 provides screw terminals for CANbus access and extension in remote mounting applications.

- Standard RP Option or Remote Mounting
- DIN Rail Mounted
- Provides Physical Termination Point for CANbus Network

TM03

TM03 is a 120/277V line voltage switching power supply and physical termination module. TM03 is a standard option for Panel products. TM03 is combined with other modules via a pluggable CANbus to address specific application requirements. TM03 provides 24VDC power and screw terminals for CANbus access and extension in remote mounting applications.

- Standard Panel Option
- DIN Rail Mounted
- Resides on CANbus Network
- Class 1 Power Supply
- Provides Physical Termination Point for CANbus Network andExpander module power



RO04

RO04 is a Line Voltage Relay Output module with built in Load Status that can control up to four independent circuits. RO04 is a standard I/O module option for all panel products. RO04 is combined with other I/O modules via a pluggable CANbus to address specific application requirements

- Standard Panel Option
- DIN Rail Mounted
- Resides on CANbus Network
- 4 Relay Outputs
- Rotary Dial Addressing

RE04

RE04 is a Line Voltage Relay Output module with built in Load Status, and UL924 Emergency Power Sequence. RE04 can control up to four independent emergency 120VAC/277VAC 20A single phase circuits. RE04 is a standard I/O module option for all Panel products. RE04 is combined with other I/O modules via a pluggable CANbus to address specific application requirements. TM03 Termination Module is required for UL924 Sequences. See page 2 for emergency sequence and testing procedure.

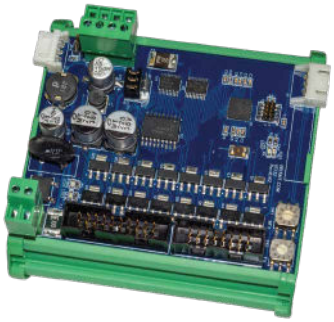
- Factory or Remote Mounting
- DIN Rail Mounted
- Resides on CANbus Network
- 4 Relay Outputs w/UL924
- Rotary Dial Addressing
- Remote Configuration

SOLUTIONS

RD32/RD16

RD16 is a Universal Relay Driver module that includes both 24VAC/VDC Relay Output Drivers and Low Voltage Status Inputs and is used to drive and monitor multiple OEM lighting control relays. RD16 is a standard I/O module option for Kits. RD16 is combined with other I/O modules via a pluggable CANbus to address specific application requirements. Remote mounting applications require a Termination Module (TM). RD16 requires external 24VAC/24VDC sub buss power.

- Standard RP Option or Remote Mounting
- DIN Rail Mounted
- Resides on CANbus Network
- 16 Relay Drivers and 16 Load Status Inputs per module
- Multi manufacturer relay compatibility



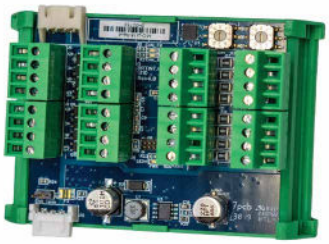
RD32 is a Relay Driver Module designed to be compatible with all legacy products that utilize LTR, RR7, and RR9 Relay Platforms via a 16 or 20 Pin ribbon cable con- nection. RD32 has an integral 24VAC to 24VDC power supply. RD32 is combined with other I/O Modules via the pluggable CANbus to address specific application requirements.

- Includes Retrofit Bracket for replacement mounting of legacy Controllers
- DIN Rail Mounted
- Resides on CANbus Network
- 32 Relay Drivers per module
- Relay Status is supported in Legacy Retrofit Kits
- Integral 24VAC to 24VDC Power Supply, 500mA Capacity

UI16

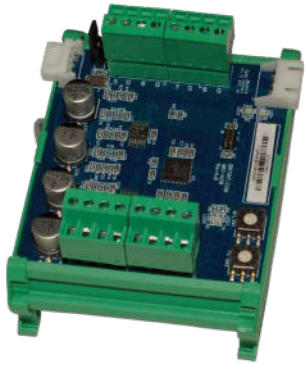
UI16 is a Universal Input module for sensors and low voltage switches. All inputs and types include a corresponding BACnet point. UI16 is a standard I/O module option for all control products. UI16 is combined with other I/O modules via a pluggable CANbus to address specific application requirements. Remote mounting applications require a Termination Module (TM). UI16 requires external 24VDC sub buss power. Digital Input option is wet type and requires 24VDC.

- Standard RP Option or Remote Mounting
- DIN Rail Mounted
- Resides on CANbus Network
- 16 Universal Inputs Configurable
- Digital Input (DI): 24VDC
- Analog Input (AI): 0-5VDC, 0-10VDC, or 4-20mA



AO08

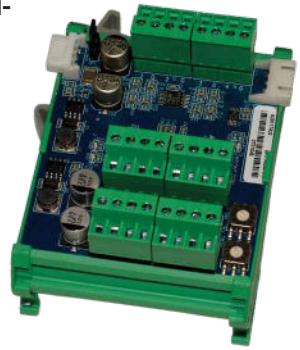
AO08 is a 0-10V Analog Output module used for 0-10VDC dimming applications. AO08 is a standard I/O Module option for all control products. AO08 is combined with other I/O modules via a pluggable CANbus to address specific application requirements. Remote mounting applications require a Termination Module (TM).



- Standard Panel and Kit Option
- DIN Rail Mounted
- Resides on CANbus Network
- 8 Analog Outputs
- Rotary Dial Addressing
- Remote Configuration

AU48/DU88

AU48 is a combination module that includes both Analog Outputs for 10VDC dimming and Universal Inputs for sensors and low voltage switches. All inputs and types include a corresponding BACnet point. AU48 is a standard I/O module option for all control products. AU48 is combined with other I/O modules via a pluggable CANbus to address specific application requirements. Remote mounting applications require a Termination Module (TM). AU48 requires external 24VDC sub buss power. Digital Input option is wet type and requires 24VDC.



- Factory or Remote Mounting
- DIN Rail Mounted
- Resides on CANbus Network
- 4 Analog Outputs, 8 Universal Inputs
- Rotary Dial Addressing
- Remote Configuration

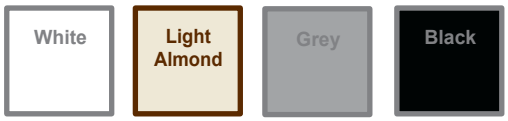
DU88 is a combination module that includes both Digital Outputs for on/off control of low voltage devices and Universal Inputs for sensors and low voltage switches. All inputs and types include a corresponding BACnet point. DU88 is a standard I/O module option for all control products. DU88 is combined with other I/O modules via a pluggable CANbus to address specific application requirements. Remote mounting applications require a Termination Module (TM). DU88 requires external 24VDC sub buss power. Digital Input option is wet type and requires 24VDC. Digital Outputs require external power and are rated for 24VAC/24VDC 1A each.

- Factory or Remote Mounting
- DIN Rail Mounted
- Resides on CANbus Network
- 8 Digital Outputs, 8 Universal Inputs
- Rotary Dial Addressing
- Remote Configuration

SOLUTIONS

CAPACITIVE TOUCH STATIONS

- Addressable CANbus Stations
- On/Off, Raise/Lower, and Preset
- Decora Style Opening
- LED and Audible chirp for status Indication
- Four Color Options



Custom colors including Light Almond, Grey, and Black are available. Contact Blue Ridge Technologies for details.

SWITCHES

- Low Voltage Override Switches
- Single and Dual Button
- Decora Style Opening
- Available in White and Ivory

OCCUPANCY SENSORS

- Low and Line Voltage Models
- Passive Infrared
- Dual Technology utilizing High frequency Doppler (HFD)
- Ceiling, Wall and Corner Mount Sensors
- Multiple Mounting and Lens Options

LIGHT SENSORS

- 0-10v Photodiode Light Level Sensor
- Foot-Candle and Lux Values
- Indoor, Outdoor & Skylight Models
- Multiple Ranges

TRY US
AND EXPERIENCE THE DIFFERENCE OTHERS COUNT ON.

LET'S GET IN TOUCH

STOP BY

Blue Ridge Technologies
1800 Sandy Plains Industrial Parkway
Suite 216
Marietta, GA 30066

WE'RE HERE TO HELP

Toll-free: +1 (800) 241-9173
Main Phone: +1 (770) 790-4880
Main Fax: +1 (770) 790-4883

CONTACT US

Sales: Sales@BRTint.com
Customer Service: CustomerService@BRTint.com
Technical Support: TechSupport@BRTint.com

HOURS OF OPERATION

Monday - Friday: 8:00 AM to 5:00 PM (Eastern)

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THE BLUE RIDGE DIFFERENCE AT WORK

Sports Facilities
San Antonio Alamodome
Autzen Stadium (Oregon Ducks)
Bank of America Stadium (Panthers)
Empower Field at Mile High (Broncos)
NRG Stadium (Texans)
Petco Park (Padres)
Rocket Mortgage Fieldhouse (Cavs)

Healthcare
Aetna
Intermountain Healthcare
Kaiser Permanente
Merk
Palo Alto Medical Foundation
Pfizer
Sutter Health
UC David Medical Center

International
5th Avenue Place
Carrier Commercial Singapore
Cathay Pacific Headquarters (Hong Kong)
Centro Comercial Las Americas (Mexico City)
Hewlett-Packard Mexico (Mexico City)
Johnson Controls Australia (Sydney)
Incheon International Airport (Korea)
Korea City Air Terminal (Korea)
Motorola (Chihuahua, Mexico)
Sinclair Center (Vancouver, Canada)
Tribunal de Contas da Uniao (Mexico City)

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Federal Courthouses
Federal Reserve Bank
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Navy Pier Chicago
Oregon Department of Public Safety
United States Department of State
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Washington State Department of Transportation

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5th Avenue Place
Bloomingdale's
Broadway Plaza - Walnut Creek
Cumberland Diamond Exchange
Fashion District Philadelphia
Scottsdale Fashion Square
Fashion Show Las Vegas
The Greenbriar
Lidl US
Macy's
Marriott Hotels
Tysons Corner Center
Whalers Village

Airports
Albany International Airport
Baltimore Washington Thurgood Marshall International Airport (BWI)
A.B Won Pat Guam International Airport
John F. Kennedy International Airport
John Wayne Santa Ana Airport (SNA)
Kahului Airport
McCarran Rent-A-Car Center
Ontario International Airport (ONT)
Greater Rochester International Airport (ROC)
Salt Lake City Internatinal Airport (SLC)
Tampa International Airport

Corporate
AT&T
Bechtel
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DeBartolo Development
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HP
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Lockheed Martin
Nestle
Northrop Grumman
Starbucks
USAA
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UPS
Verizon
Warner Bros.

Municipal
Camden County Courthouse
Chatham Library
Los Angeles Police Department - Headquarters
Culver City-City Hall
Hennepin County Minnesota
Jefferson County Courthouse
King County Library System
Oakland City Center
Orlando City Hall
Tacoma Union Station
Turlock Irrigation District Water & Power
United States District Court Western District of Washington
Vacaville Police Department

Schools
Irma C. Austin Middle School
Bellevue School District
Carmel High School
Central High School
Claughton Middle School
Clearwater High School
Dekaney High School
Deuitt Middle School
Elk Grove Unified
Franconia Elementary School
Grand Point Elementary School
Lakewood Ranch High School
Meadville Area Senior High School
Palo Alto Unified School District
St. Paul Public Schools
Salyers Elementary School
Spring High School
Sugar Pine Elementary School
Toledo Public Schools
Wells Middle School
Westfield High School
Winship Elementary School

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Long Beach City College
Morehouse School of Medicine
Northwestern University
Orange Coast College
Pepperdine University
Portland State University
Queens College, New York
Roanoke College
Rockefeller University
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UNIFIED LIGHTING CONTROL

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