



## **BC4X1 Pro Automation Controller**

Control and automate displays, video sources, audio processors, amplifiers, shades, lighting and much more. Any device controllable by IR, RS232 or IP can be connected. Voltage sensing, routable IR, bidirectional RS232 I, analog inputs and digital inputs/outputs allow for a wide array of automation and control possibilities.

Project Editor Software allows code-free device set-up, macro development and totally customizable GUI creation. GUIs are rendered in HTML so any web enabled device including smart phones, touch screens and PCs can be used as control interfaces. The BitWise Touch app enables an iPhone, iPad, or iPod Touch to control the system as well.

Even though the system can operate as a standalone controller, bidirectional RS232 capability allows it to also be an easy add on to existing control systems. Add another room, more equipment, or just use it to add web enabled interface capability.

Applications include Conference Rooms, Digital Signage, Sports Bars, Houses of Worship, and Event Centers.



# BC4X1 Pro Automation Controller

## Features:

- IR library built in with 348,000 codes to make installation quick and easy
- Two configurable GPIO ports (general purpose input/output)
- Digital Input capability (does not take up IR port or require additional hardware)
- Sense Voltage (video sensing) or evaluate equipment state (on/off)
- Digital Output for control of turning equipment on or off
- Analog input to connect directly to line level audio or composite video to trigger events or evaluate equipment state
- Configurable input parameters allowing tailored sensing parameters to the device generating the signal.
- An internal GPIO port can be configured to act as a counter or frequency input to measure activity.
- Four IR ports and an IR blaster – Route IR to any port for specific equipment control or blast it to a rack of equipment
- Two SPDT relays for control of shades, projector screens, amplifier power up or turning lights on and off.
- Bi-directional RS232 – for direct equipment control or to work with other automation platforms.
- Power over Ethernet 802.3af for locations with no available power or in tight spaces that do not allow for an additional power supply.
- Field upgradeable firmware allowing for upgrades without sending the product back to the factory.

Network Connectivity 10-Base-T  
 Protocols TCP, UDP, HTTP  
 Power 802.3af Compliant PoE or 12VDC 500 mA external  
 Configuration TCP, UDP or Web Browser  
 LEDs Status, Link, Activity  
 Enclosure 20ga Steel, keyhole slots for wall mounting  
 Dimensions 4.5" x 5" x 1"  
 Warranty One Year Limited



I/O Connector Type 3.5mm pitch pluggable terminal blocks

## I/O Connections

- 1 - Ground
- 2 - RXD
- 3 - TXD
- 4 - I/O 1
- 5 - Ground
- 6 - I/O 2
- 7 - Ground
- 8 - Relay 1 Normally Closed
- 9 - Relay 1 Common
- 10 - Relay 1 Normally Open
- 11 - Relay 2 Normally Closed
- 12 - Relay 2 Common
- 13 - Relay 2 Normally Open
- 14 - +12VDC @ 250mA max.

Analog inputs 10 bit 0 – 12VDC

Digital Outputs 10mA @ 3.3VDC

Relays SPDT – 2A @ 30VDC

IR Connector Type 3.5mm – Standard IR blaster type

IR Outputs 4 plug in, 1 built in

RS232 3 wire serial port controlled by the Bitwise command protocol or in pass through mode via a dedicated TCP socket

Onboard IR Learner Uses IR #5 LED

Onboard IR Database 348,000 unique key codes

Dimensions 4.5" x 2.4" x 1"

Warranty One year limited