



ColorMix  
Lighting Solutions by Allanson



Tried · Trusted · True

Scotiabank  
Arena



## VIBRANT ANIMATED LIGHTING CONTROL



### PRODUCT

Discover innovative lighting solutions designed for versatility, durability, and seamless integration.



### SUPPORT

From planning to installation, our experts guide you every step of the way for a hassle-free experience.



### CONTROL

Customize and program lighting effects with precision using our advanced controllers and accessories.

CONTACT US



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# ColorMix

Lighting Solutions by **Allanson**

## SUPPORT



1

### PROJECT LAUNCH

Get expert guidance to kickstart your lighting project with precision and confidence.



2

### PRODUCT INQUIRY

Have questions? Our team is ready to help with product details, compatibility, and solutions.



3

### LAYOUT + ESTIMATES

We assist in planning efficient layouts and provide accurate cost estimates for your project.



4

### WIRING DIAGRAM

Clear, customized wiring diagrams ensure smooth installation and optimal performance.

**PURCHASE**



5

### ALWAYS-ON TECHNICAL SUPPORT

Our team is here to ensure a smooth setup, programming, and troubleshooting experience. With in-house services and centralized product recommendations, we simplify your RGB projects from design to installation.





# ADDRESSABLE MASTER CONTROLLERS



## ACL-DMX/SPI-LC



## DMX/SPI MASTER LIGHTING CONTROLLER

Allanson raises the bar with a first-of-its-kind Master Controller supporting both DMX and SPI protocols — empowering designers and installers with greater flexibility and control for today's most demanding signage applications.

- **Multi-Function Controller:** Combines DMX, TTL-SPI, and Boosted SPI in a single unit
- **5" Touchscreen LCD Display minimize:** Easy-to-use interface for simplified
- **DMX Protocol Compatibility:** Integrates easily with DMX-based systems for flexible, complex setups.
- **Scheduling & Automation:** Automates lighting programs by setting specific days, hours, and minutes. Adapts to daylight hours, events, or routine usage.
- **16 Output Channels:** Supports intuitive installation with minimal configuration.
- **Hardkey Arrows:** Durable physical buttons for reliable operation even in outdoor environments.
- **Pixel Mapping Compatibility:** Seamless programming and control, for efficient pixel mapping and scheduling.
- **Boosted SPI Ports:** Extends SPI signals up to 1,000 feet with Allanson's SPI Range Extender Receiver (sold separately), maintaining signal integrity over long distances.



### DMX & SPI Master Controller

ACL-MC-MP-VI

- Controls more than 10,000 LED modules.
- Supports DMX and SPI protocols
- 10.1" LED backlight LCD, true flat touch screen
- Fanless design, integral aluminum alloy profile for thermoregulation
- Rugged 3 piece housing (provides NEMA 4)
- Control multiple signs remotely via the internet, locally, or the cloud with a robust user-friendly interface



### Addressable Controller

ACL-ADC-SPI

- Controls over 21000 modules
- Supports SPI & DMX protocols (non-simultaneous)
- 14 Programs can be stored with an SD card
- Day, hour, and minute time setting capability
- Maximum distance from controller to first module is 200 ft and between modules is 60 ft
- 120V AC power adaptor, channel adaptors, SD card, and SD card reader included







**TRANSMITTER**



**RECEIVER**

## SPI Range Extender (Transmitter & Receiver)

ACL-SPI-EXT-TX & ACL-SPI-EXT-RX

- Converts standard TTL SPI signals to differential signals using a dedicated transmitter
- Converts received differential signals back to TTL levels for standard SPI interfacing via a dedicated receiver
- Extends the operational range of SPI communications from a few feet to a maximum 1000 ft
- Uses differential signaling and ethernet cables to minimize electromagnetic interference (EMI)
- Supports SPI data rates up to several Mbps, depending on specific implementations and distance
- Compatible with both 3.3V and 5V TTL-SPI logic levels
- Operates on input voltages 12V DC or 24V DC
- Reverse polarity and short circuit protection
- Provides visual feedback for power status, monitoring, and troubleshooting
- Compact, durable, and easy to install with minimal configuration
- Functions in harsh environments and includes protection against high humidity



## 4xSPI Range Extender

ACL-SPI-TX/4-SPL/0

- Facilitates the amplification and independent operations of four channels
- Extends the reach of SPI signals over long distances
- Supports high-speed SPI data rates
- Compatible with both 3.3V and 5V TTL-SPI logic levels
- Operates on input voltages 12V DC or 24V DC
- Reverse polarity and short circuit protection
- Provides visual feedback for power status, monitoring, and troubleshooting
- Compact, durable, and easy to install with minimal configuration



## 4xSPI Splitter & Range Extender

ACL-SPI-TX/0-SPL/4

- Splits and amplifies SPI signal into four independent channels
- Supports high-speed SPI data rates
- Ensures signal stability for reliable communication over long distances
- Compatible with both 3.3V and 5V TTL-SPI logic levels
- Operates on input voltages 12V DC or 24V DC
- Reverse polarity and short circuit protection
- Provides visual feedback for power status, monitoring, and troubleshooting
- Compact, durable, and easy to install with minimal configuration







## Addressable Pre-programmed Controller



### ACL-ADPPC

- Controls from 8 to 1020 modules
- 16 Preset Programs
- Adjustable Speed, direction, fade, and strobe
- Maximum RF transmission distance is 130 ft line of sight
- Maximum distance from controller to first module or between modules is 60 ft
- Wireless remote and 120V AC power adaptor included



## DMX MASTER CONTROLLERS

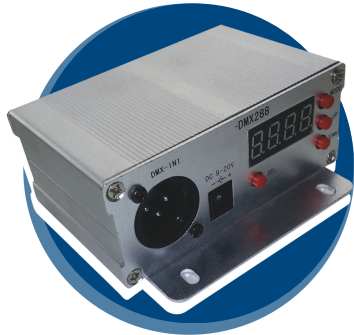


### DMX Master Controller



#### ACL-MC-DMX-1U

- 6 selectable modes. Buttons (8), Pages (10), Zones (1)
- Color (99 RGB + 8 RGBW)
- Commands from the contacts (speed, scene, dimmer, zone)
- Time clock setting adjustable manually in stand alone.
- 16-bit and fine channel management
- Automatic scene recovery if the power is cut off
- Cross fade time between scenes
- Turn off display after 4s., default start scene, dimmer and RGB color selection.
- Master/Slave mode with up to 32 devices combined and synchronized (64 universes)



### Pre-Programmed Master Controller

#### ACL-PPMC-DMX

- 16 sub-controller capability
- 32 preset programs available
- Develop your own color with 255 level of each red, green, and blue
- Microphone for sound control
- Adjustable speed and intensity
- Maximum distance from DMX master controller to sub-controller is 200 ft
- 120V AC power adapter included



## DMX SUB-CONTROLLERS



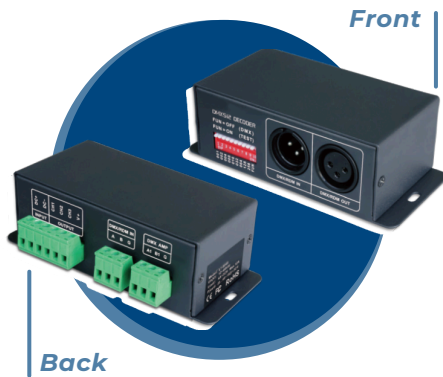
### DMX Sub-Controller



#### ACL-SC-DMX

- Control intensity, brightness, dimming, and fading of RGBW colors through a single output channel
- Generates of diverse RGBW lighting effects
- Easy programming of DMX channels through an external programmer, eliminating issues associated with DIP switch settings found in other controllers
- Ensures smooth operation and compatibility with other DMX devices, supporting the daisy-chaining of multiple DMX decoders
- Designed for versatile use in both outdoor and indoor environments
- Features an emulating LED function to identify the output LED colors
- Includes overload and short-circuit Protection





## DMX Sub-Controller

ACL-SC3C4A-DMX

- Runs up to 80 modules of RGB3 System or 12 ft of RGB Rigid Border Tubing
- Uses 12V DC or 24V DC
- 8 built-in dip switch preset programs
- Operates independently or as part of a system



## ACCESSORIES



## 4 Channel Power Repeater

ACL-PR-4CH-5A

- PWM RGBW Signal Amplification: Synchronized LED control across multiple strips
- High Load Capacity: Supports up to 5A per channel, total 5A across all channels
- 3kV Isolation: High-speed optocouplers protect against electrical surges
- Extended Reach: Ideal for large or complex LED installations
- Signal Integrity: Prevents loss, ensuring uniform brightness and color
- Multi-Channel Support: Flexible, scalable RGBW lighting setups
- Broad Compatibility: Works with various LED controllers and systems
- Durable & Compact: Long-lasting with efficient space use
- LED Power Indicator: Visual feedback for power status



## RJ45 Adapter

ACL-SIG-AD

- Converts RJ45 cable connections into individual spring-cage terminals
- 8-Pin Terminal Block: Supports all 8 wires in a standard RJ45 connection
- Works with Ethernet cables for high-speed data transmission.
- Durable Housing for Indoor/Outdoor Use: Sturdy and compact design
- Spring-cage terminals: For quick, secure wiring
- Suitable for connecting control/networking devices to other devices or for data transmission in custom applications.
- Ideal in lighting controller wiring, DIY electronics projects, and networking setups.
- Outdoor environmental protection against high humidity

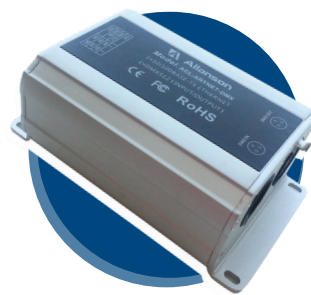




## SPI Signal Amplifier and Splitter

ACL-SPI-SA

- Extends the SPI signal distance an extra 100 ft when used with the Allanson Signal Cable or an extra 60 ft when used with the CAT5 cable
- Multiple amplifiers can be used



## DMX512/Network Converter

ACL-ARTNET-DMX

- Sending DMX signal over IP networks
- Can be configured in two ways: DMX512 to Network or Network to DMX512



# WI-FI CONTROLLERS & COMPONENTS



## Wi-Fi LED Controller

ACL-WIFI-106

- 5 in 1: DIM / CT / CCT / RGB / RGBW mode allow simultaneous light control
- Control using your iOS, Android devices, or F12 RF remote
- Connect to WIFI directly or by a router
- Programmable
- Multiple zone control capabilities
- Zones 2-12 require the use of ACL-WR-F4-3A Wireless Receiver



## Wireless Receiver

ACL-WR-F4-3A

- RF 2.4GHz wireless signal, no need for signal cable
- Dimming, CT, RGB, RGBW LED lights can be controlled
- Compatible with F series remote
- Support APP if equipped with ACL-WIFI-106 gateway



## Wireless Remote Control

F12 RF Remote Control

- Included with Wi-Fi 106 Controller
- Working Voltage: 3V DC (Battery CR2032)
- Wireless Frequency: RF 2.4 GHz
- Weight (G.W.): 85g
- Features: 8 scene-mode keys







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**SCAN HERE**



For more information contact  
our customer service team or  
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website



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