DMX/SPI Master Lighting Controller
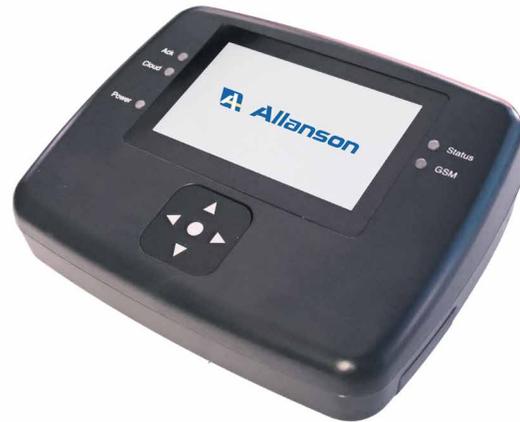## ACL-DMX/SPI-LC

Overview

This versatile controller combines DMX, TTL-SPI, and Boosted SPI functions in one unit, reducing hardware complexity. It supports up to 16 output channels, extending SPI signal range up to 1000 feet with the Allanson SPI Range Extender. Fully compatible with Allanson Module Pixel Mapping software, it enables seamless programming, pixel mapping, scheduling, and easy content management via USB-C download for offline playback. It handles up to 2,048 RGBW or 2,730 RGB DMX modules and 21,824 SPI module (pixels), making it ideal for large installations. Features include a time clock display for day or event scheduling, adjustable speed control for LED effects, program upload, auto-scheduling, manual execution, and schedule editing. A 5" touchscreen and physical hard key arrows ensure easy, reliable navigation and reliable operation in harsh environments, with a factory-set and customizable login password for security. Allanson's new ACL-DMX/SPI-LC meets the most stringent security requirements

More Information

Features

Multiple Functions in One
Combines DMX, TTL-SPI, and Boosted SPI in one unit, streamlining management and reducing hardware complexity.

Compatibility with Allanson Module Pixel Mapping Software
Ensures seamless programming and control. Optimized for efficient pixel mapping and scheduling.

Module Pixel-mapped and Scheduled Files
Download module pixel-mapped designs and schedules directly to the controller for easy content management.

Playback
Internal storage supports mapping file playback for installations without external connections.

16 Output Channels
Supports intuitive installation with minimal configuration.

DMX Protocol Compatibility
Integrates easily with DMX-based systems for flexible, complex setups.

Boosted SPI Ports
Extends SPI signals up to 1000 feet with Allanson's SPI Range Extender (Receiver) maintaining signal integrity over long distances.

High Pixel Capacity
Supports up to 2,048 RGBW or 2,730 RGB DMX modules, and 21,824 full-color SPI Addressable modules (pixels), or a combination of both.

Scheduling
Automates lighting programs by setting specific days, hours, and minutes, reducing manual adjustments. Ensures lighting adapts to time-based or event-driven needs (e.g., daylight hours, events, or routine usage).

Adjustable Speed
Manually control LED speed for color changes, animations, and transitions.

Upload and Auto-Scheduling of Module Pixel-Mapped Files
Supports uploading pixel-mapped files for automation. Enables auto scheduling for seamless execution.

Manual Execution of Module Pixel-Mapped Files
Manually trigger pixel-mapped files as needed for flexible control.

Editing Date and Time for Uploaded Auto-Running Schedules
Modify scheduled execution times for uploaded files. Adjust and manage auto-running schedules easily.

5" Touchscreen LCD Display for Easy Programming and Access
User-friendly interface that simplifies navigating programming setting control.

Hardkey Arrows for Navigation in Harsh Outdoor Environments
Durable physical buttons for reliable operation. An alternative to touchscreen.

Factory Set Login Password and User Password Management
Comes with a secure factory-set login password that you can easily change anytime for a personalized password.

Specifications

Operating Voltage................	DC 12V/24V 2.5A Class 2 Power Supply
Maximum Power..................	30W
Touchscreen LCD Display...	5 inch Capacitive Touch Display 800×480
Output Signal Channels.......	RJ45 - 16 Channels
DMX Output........................	Max 512 x 16 Channels (512/4 x 16 RGBW modules/pixels or 512/3 x 16 RGB modules/pixels)
TTL-SPI Output....................	Max 1364 x 10 Channels (13,640 modules/pixels)
Differential-SPI (Boosted) Output................................	Max 1364 x 6 Channels (8,184 modules/pixels)
Grey Level...........................	Max 65536 scale (64K)
Refreshing frequency..........	60Hz~300Hz
Storage Media..........	Internal memory Max 16GB
Pixel Mapping & Schedule Uploading Port.....................	USB-C port
Side Ports...........................	RJ45 for TCP/IP and XLR for DMX In & Out
Back Ports..........................	RJ45 for SPI and DMX Out
Product Dimensions............	8" x 6.5" x 2.5" (L203×W165×H63 mm)
Weight.................................	920g(N.W.) 1450g(G.W.)
Operating Temperature.......	-20 to +55 °C (-4 to +131°F)
Warranty.............................	5 Years
Cerifications........................	cULus Certification
Packaging...........................	10" x 9" x 4" (L254 ×W228×H100 mm)

Includes:
- Master Controller Unit
- 12VDC 2.5A Class 2 Power Adapter

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