



ultamation

FEATURES

- Dedicated DMX controller
- Output to the complete 512 DMX channel universe
- 2 pattern generators
- 16 RGB steps per pattern generator
- Non-volatile RAM for up to 255 stored patterns and initial start-up configuration
- Custom commissioning tool
- Simple, open control protocol
- Crestron integration modules available
- Crestron Home integration Driver available
- Ships with DHCP enabled
- Ethernet communication – TCP and UDP support
- Flexible power options: 9-24V DC or AC
- 3M wide DIN rail mountable

UC-DMX-210

DIN-RAIL ETHERNET TO DMX CONTROLLER

The Ultamation UC-DMX-210 is an Ethernet to DMX control interface for DIN rail mounting applications. Feature complete control of an entire 512 channel DMX universe, the UC-DMX-210 provides the bridge between any programmable Ethernet based control system and a DMX lighting system (or any other DMX controlled devices). In addition to discrete channel control, the UC-DMX-210 also implements 2 independent pattern generators, capable of scrolling a pattern of up to 16 RGB values across a range of DMX addresses, removing the load from the host system.



DIN Rail Mounting

The UC-DMX-210 is designed to easily mount onto a standard DIN rail for installation in any DIN rail enclosure. At only 3 standard modules wide, the UC-DMX-210 is a powerful DMX controller in a very compact form factor and perfectly suited to sit alongside DIN rail lighting control solutions with suitable integration architectures.

Custom Commissioning Tool

The UC-DMX-210 is supported by Ultamation's universal commissioning tool which will discover devices on the Ethernet network, and then provide everything you need to set specific IP settings, configure the pattern generators and save settings to non-volatile RAM. That means that, once configured, the UC-DMX-210 can even be used in solutions without a host control system, playing back patterns continuously while power is applied.

TECHNICAL DATA

- Processor :** Microchip PIC based
Harvard architecture
processor running at
41MHz
- Memory :** 128Kb Program Memory
1Mbit NVRAM
- DMX 512 :** Protocol over 3-pin 3.5mm
detachable
terminal block
- Ethernet :** 10 Mbps, Full-duplex
- Power :** 2-pin 3.5mm detachable
terminal block, 9-24V DC
or AC, internally rectified
- Network :** 10 mbps only

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Pattern Generators

As well as control over every one of the DMX universe's 512 output channels, the UC-DMX-210 includes 2 independent pattern generators. Each one is capable of playing a repeating pattern of up to 16 colour values (Red, Green & Blue) across a range of DMX addresses. Numerous attributes can be controlled such as speed and direction of the pattern, address spacing (allowing patterns to be interleaved across DMX fixtures), colour blend or snap mode and pattern span (how many DMX fixtures will the pattern be spread across). Individual pattern generators can also be combined through a series of mathematical and logical operators to create exciting, complex interactions. The pattern generator includes a special "Fade" mode to allow a range of DMX addresses to fade over a specified time to a given RGB colour value. For further details please refer to the UC-DMX-200 user's guide.

Ethernet Communications

The UC-DMX-210 is a standard Ethernet device, and can be controlled via TCP (required for feedback of colour values) or UDP which is ideal when responsive communications are paramount. The unit comes pre-configured for DHCP making initial installation a breeze, though the address and communications port are fully configurable. Initial commissioning is managed via Ultamation's Universal Configuration Tool, an easy to use Windows application that can automatically discover one or more UC-DMX-210s and provides a simple interface to all configuration options. Configuration can be saved to a file so rolling out large installations with common settings is as simple as loading from a template.

Flexible Power Options

The controller incorporates a bridge rectifier and regulator so can take a wide range of AC & DC power, making it extremely flexible for installation in many ELV enclosures.

CONNECTION DETAILS

