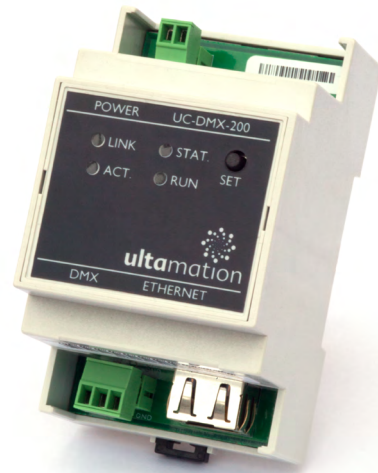![ultamation logo]

FEATURES

- Dedicated DMX controller

- Output to the complete 512 DMX channel universe

- 8 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

- 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-200
DIN-RAIL ETHERNET TO DMX CONTOLLER

The Ultamation UC-DMX-200 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-200 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-200 also implements 8 independent pattern generators, capable of scrolling a pattern of up to 16 RGB values across a range of DMX adresses, removing the load from the host system.

DIN Rail Mounting

The UC-DMX-200 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-200 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-200 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-200 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 Harved 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

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ultamation

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Pattern Generators

As well as control over every one of the DMX universe's 512 output channels, the UC-DMX-200 includes 8 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-200 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-200s 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

+VE   GND

DATA+   DATA-   GND