



PIXELATOR MINI MK2 – Datasheet

eDMX to SPI Pixel Controller: Converting up to 128 Universes of SPI pixel data cross long distance.



Features

- Converts eDMX (e.g. Art-Net, sACN, and ESP) to SPI for pixel control over long distance.
- Dual RJ45 connectors for daisy-chain connectivity at 10/100 Mbps speeds.
- 16* RJ45 output ports fully compliant with Cat5e/Cat6 cable for easy installation.
- Up to 128 Universes (8U per port) pixel control.
- Active IEEE 802.3AF Active PoE or 12-24v DC power input.
- All ports feature ESD surge protection and resettable fuses to block external faults & electrical noise propagation through control infrastructure.
- Compatible with ENTTEC PLINK INJECTOR range.
- Compatible with ENTTEC CVC4 RGBW auto-addressable LED dimmer.
- Allows users to create and customise SPI pixel protocols (criteria apply, see 'Custom Protocol Creation Guide' document).
- Pixel arrangement including pixel order, pixel grouping for each PLINK output is individually configurable.
- Multiple mounting options: 1U Half Width Rack, 19" Rack, Surface mount, TS-35 DIN mount.

Pre-listed Support Protocols*:

APA 104, GS8208B*, SPXL (16bit & 8bit), SK6812, SJ1221 (16bit & 8bit), TM1804, TM1812, TM1814, TLC5973 (16bit & 8bit), UCS1903*, UCS2903*, UCS2904*, UCS8903 (16bit & 8bit), UCS8904 (16bit & 8bit), WS2811*, WS2812*, WS2812B, WS2813*, WS2815*, WS2818*, 9PDOT (16bit & 8bit).

* IMPORTANT: If you wish to control a protocol marked with a * and the option to do so is missing in the current firmware interface for your product, please select WS2811 or WS2812b instead for your LEDs to work properly.

Specification

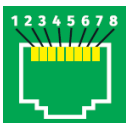
| | | |
|-------------------------------------|--|------|
| Connectors | 1* Power input (DC Jack) | |
| | 2* Ethernet (RJ45) | |
| | 16* PLINK output (RJ45) | |
| Power Input | 12-24V DC / PoE IEEE802.3AF | |
| Current Draw | 100-270mA | |
| Max. Power Draw | 3.2W | |
| ESD Protection | Resettable fuse & TVS suppression per port. | |
| Surge Protection | Yes (all ports) | |
| IP rating | IP20 | |
| LED status indicator | Forward-facing LED indicator | |
| | Network link/Activity (integrated into RJ45) | |
| Input Protocols | Art-Net | sACN |
| | ESP | |
| Output Protocol | SPI in PLINK Data | |
| Max. Output Universe | 128 Universe | |
| Network Speed | 10/100Base-T | |
| Network Configuration | Static / DHCP | |
| Configuration & Update | Web Interface | |
| Cooling Method | Convection | |
| Environmental Operating Temperature | 0°C to 50°C 32°F to 122°F | |
| Environmental Operating Humidity | 5- 95% (non-condensing) | |
| Body Material | ABS + anodized aluminium | |
| Unit Weight | 0.47kg /1.04lbs | |
| Shipping Dimensions | 335*265*78 mm | |
| Shipping Weight | 1.2kg / 2.65lbs | |
| Warranty | 3-year return to base manufacturer warranty | |

Certification



RJ45 Pinout for PLINK Output

- Pin 1: Data +
- Pin 2: Data -
- Pin 7/8: Ground

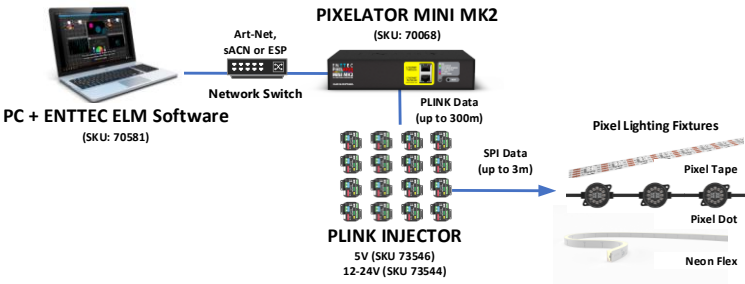


Do not use crossover cables with any Plink device.

Box Content

- PIXELATOR MINI MK2 (70068)
- 1 x 2m Cat5 cable (79102)
- 1 x 12V PSU adaptor with international plugs.
- Mounting Accessories

Application Diagram



Safety

- This unit is intended for indoor use only. Do not expose to rain or moisture, doing this will void the warranty.
- Make all the connections before you power it.
- Do not remove the cover, there are no user serviceable parts inside.
- Never plug this unit into a dimmer.
- Fit this unit in an area that will allow sufficient ventilation.
- Label any PLINK output cable and DO NOT connect to non-PLINK devices (i.e. Ethernet Switches). Connecting incompatible systems could result in permanent damage to equipment.

Ordering Information

For further support and to browse ENTTEC’s range of products visit the [ENTTEC website](#).

| Item | SKU |
|--------------------------|-------|
| PIXELATOR MINI MK2 | 70068 |
| PLINK INJECTOR (5v) | 73546 |
| PLINK INJECTOR (12v-24v) | 73544 |

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Due to constant innovation, information within this document is subject to change.