



PIXELATOR MINI – Datasheet

eDMX to SPI Pixel Controller: Transmitting up to 32 Universes of SPI Data Across Long Distances in the PLINK System



Features

- Converts eDMX (e.g. Art-Net, sACN, and ESP) to SPI for pixel control over long distance.
- 2* RJ45 Ethernet inputs (10/100 Mbps) to 8* RJ45 output ports, fully compliant with Cat5e/Cat6 cable for easy installation.
- Up to 32 Universes (4U per port) pixel control featuring overdrive mode.
- 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

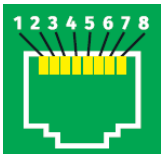
Connectors	8* PLINK output (RJ45)	
	1* Power input (DC Jack)	
	1* Ethernet (RJ45)	
Power Input	12-24V DC / PoE IEEE802.3AF	
Current Draw	100-270mA	
Max. Power Draw	3.2W	
ESD Protection	Resettable fuse & TVS suppression per port.	
Surge Protection	Yes (all ports)	
IP rating	IP20	
LED status indicator	Forward-facing LED indicator	
	Network link/Activity (integrated into RJ45)	
Input Protocols	Art-Net	sACN
	ESP	
Output Protocol	SPI in PLINK System	
Max. Output Universe	32 Universes	
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	0.43kg / 0.95lbs	
Shipping Dimensions	335*265*78 mm	
Shipping Weight	1.15kg / 2.54lbs	
Warranty	3-year return to base manufacturer warranty	

Certification



RJ45 Pinout for PLINK Output

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



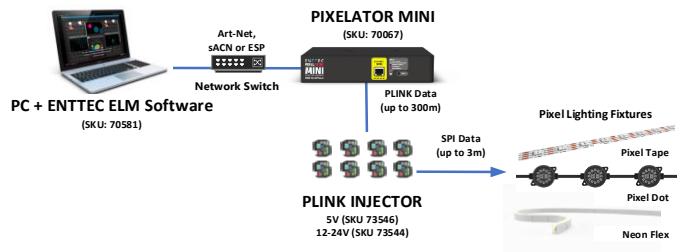
Do not use crossover cables with any Plink device.

¹ This datasheet is for PIXELATOR MINI (SKU: 70067) released after SN: 2392325, please load the latest firmware V2.0 onwards.
See latest User Manual from website for revision history.

Box Content

- PIXELATOR MINI (70067)
- 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 ¹	70067
PLINK INJECTOR (5v)	73546
PLINK INJECTOR (12v-24v)	73544

enttec.com

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