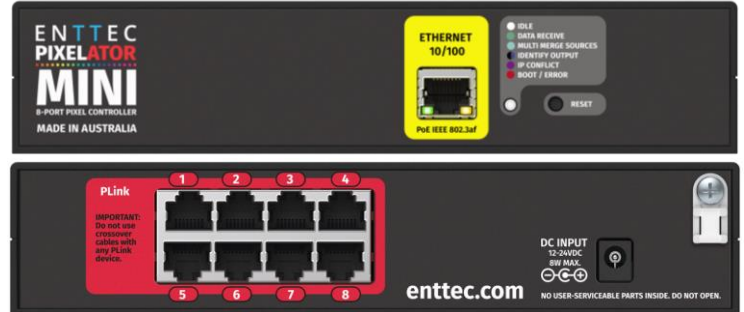


PIXELATOR MINI – Datasheet

16 Universes (8 outputs) master SPI pixel controller for a PLINK system.



ENTTEC's PIXELATOR MINI is an 8-port Ethernet pixel converter that forms the head end of the PLINK control system. Each PIXELATOR MINI can receive and convert up to 16 Universes of Art-Net, sACN, and ESP to ENTTEC's proprietary PLINK protocol.

Connecting to Plink devices, up to 2 universes of pixel control data per port can be output over long distance. The PIXELATOR MINI is powerful enough to control up to 2,728 RGB Pixels with perfect synchronization and high refresh rate across all eight outputs.

The PIXELATOR MINI's output supports not only the pre-listed SPI protocols but also customised SPI pixel protocols (criteria apply). All firmware updates and intuitive configuration management are conveniently accessible through its localhost web interface.

Mount the PIXELATOR MINI in any location using the accessories included in the box from rack, to surface, to DIN. It can be powered using either PoE or the DC Jack PSU that comes in the box.

Depending on your project, you can partner the PIXELATOR MINI with an indoor or outdoor PLINK INJECTOR compatible with the pixels you've installed. Alternatively, pair it with our CVC4 AUTO-ADDRESSING CONSTANT VOLTAGE LED DIMMERS - to create large LED control systems with minimum configuration.

Features

- Support up to 16 Universe Art-Net, sACN, and ESP to PLINK data.
- 1* RJ45 Ethernet input (10/100 Mbps) to 8* RJ45 output ports each providing 2 Universes of PLINK data output over Cat5e/Cat6 cable.
- 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.
- Static or Dynamic (DHCP) IP configuration.
- Compatible with ENTTEC PLINK INJECTOR range
- Compatible with ENTTEC CVC4 RGBW auto-addressable LED dimmer.
- Allows user to create and customise SPI pixel protocols (criteria apply, see 'Custom Protocol Creation Guide' document).
- Pixel arrangement for each PLINK output is individually configurable including pixel order, pixel grouping.
- Easy to configure & update through any web browser.
- 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

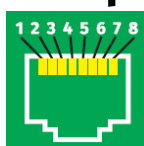
Connectors	8* PLINK output (RJ45)	
	1* Power input (DC)	
	1* Ethernet (RJ45)	
ESD Protection	Resettable fuse & TVS suppression per port.	
Surge Protection	Yes (all ports)	
IP rating	IP20	
LED status indicator	Forward facing LED indicator	
	Network link/Activity (integrated into RJ45 port)	
Input protocols	Art-Net	sACN
	ESP	
Output protocol	PLINK DATA	
Max. output channels	8192 (16 Universes)	
Network speed	10/100Base-T	
Network configuration	Static / DHCP	
Configuration & Update	Web Interface	
Input voltage	12-24V DC / PoE IEEE802.3AF	
Max. Power draw	8 Watts	
Cooling method	Convection	
Environmental operating temperature	-20°C to 50°C 32°F to 122°F	
Environmental operating humidity	5- 95% (non-condensing)	
Body material	ABS + anodized aluminium	
Rack Ear Material	Powder coated aluminium.	
Unit weight	0.44kg /0.97lbs	
Shipping dimensions	390*210*110 mm	
Shipping weight	0.79kg / 1.74lbs	
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 Use the Serial Number to claim free license for EMU software unless there is a Promo Code sticker on the device.

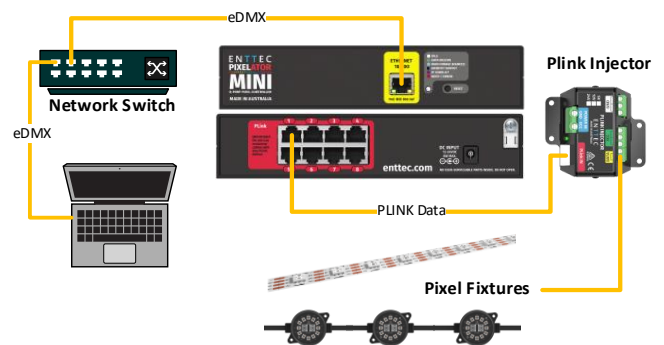
² Datasheet for PIXELATOR MINI (SKU: 70067) released after SN: 0050C20845D6, please load firmware version V2.0 onwards only.

See latest User Manual from website for revision history regarding ELM Promo Code and appropriate firmware version of your device.

Box Content

- PIXELATOR MINI (70067)
- 1 x 2m Cat5 cable (79102)
- 1 x 12V PSU adaptor with international plugs
- Rack mounting bracket, Surface/Din mounting bracket, Din Clip & screws
- 1 x ELM Promo Code - 16U (Promo Code sticker on device)¹

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 of 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](https://www.enttec.com).

Item	SKU
PIXELATOR MINI ²	70067
PLINK INJECTOR (5v)	73546
PLINK INJECTOR (12v-24v)	73544

enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

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