PROJECT	FIRM	ORDER #	TYPE	QTY

PL-DIN is the ideal DMX stand alone interface for installation in electrical DIN cabinets with DIN rails. The USB-to-DMX, Ethernet-enabled device controls from 512 to 2048 channels on **1, 2 or 4 DMX universes**.

Featuring a robust Stand Alone mode and a wide range of trigger possibilities — RS232, dry contacts, real-time clock, NODE ×4 ports, Master/Slave — this competent device is a smart solution for easy and quick architectural installations and large integration projects.

Free Pixelerr software and applications are available across devices: Windows, macOS, Linux, iOS, Android and Raspberry Pi.

Features

- DIN-rail form factor — installs directly in standard electrical DIN cabinets.
- Controls 512, 1024 or 2048 DMX channels on 1, 2 or 4 universes.
- Robust Stand Alone mode — up to 5 zones and 5 × 512 scenes with automatic scene recovery after power cut.
- Wide trigger range: RS232, 12 smart dry contacts, real-time clock & calendar, infrared remote, UDP/Ethernet and Master/Slave sync (up to 16 universes).
- NODE mode decodes Art-Net & sACN to DMX on up to 4 ports; Art-Net/sACN playback from micro SD card.
- Setting and configuration via USB-C, Ethernet or Pixelerr App (LAN & Internet).

At a glance

⚡ Power	◈ Protection	☰ Output	🌡 Temperature	✦ Certification	★ Warranty
5–24 V DC, 0.3 A	IP40	1–4 DMX universes	-40 °C to +85 °C	CE · RoHS	5 years, international

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Model matrix

Hardware capability by model. All three models share the same housing, connectivity and trigger options.

PL-DIN-*	DMX output	NODE (Art-Net & sACN)	SD playback	Memory steps	Zones	Max scenes
PL-DIN 512	512 CH	2×512 (2U split ×2)	Optional	12K – 50K	1	512
PL-DIN 1024	1024 CH	4×512 (4U)	2×512 (max 8U)	6K – 30K	5	5 × 512
PL-DIN 2048	2048 CH	4×512 (4U)	8×512 (8U)	3K – 15K	5	5 × 512

Specifications

Series	Stand Alone DMX Controller — DIN Rail
Product code	PL-DIN 512 · PL-DIN 1024 · PL-DIN 2048
DMX output	512 / 1024 / 2048 channels on 1, 2 or 4 DMX universes
Input	Ethernet (RJ45, DHCP or static IP), USB-C
RDM	Available (from Pixelerr software only)
Networks	Ethernet, Internet, WiFi compatible when connected to a router
NODE	Art-Net & sACN to DMX decoder (DHCP, IP) — 2×512 (512) · 4×512 (1024 / 2048)
DMX modes	DMX In/Out · DMX Splitter (×4 ports) · DMX Record · DMX Trigger
Art-Net/sACN playback	From micro SD — Optional (512) · 2×512, max 8U (1024) · 8×512, 8U (2048)
Memory	Micro SD card (FAT format, max 256 GB, Class 10, inside housing)
Memory step capacity	12K–50K (512) · 6K–30K (1024) · 3K–15K (2048)
Zones / scenes	1 zone, 512 scenes (512) · 5 zones, 5 × 512 scenes (1024 / 2048)
Triggers	Pixelerr App (LAN & Internet) · RS232 In/Out (16-char triggers) · 12 smart contacts, 3–5 V (31 max) · real-time clock & calendar per scene · DMX input · infrared remote · UDP/Ethernet (SDK) · Master/Slave up to 16 universes
Stand alone options	Default start scene · scene priority · cross-fade · automatic scene recovery after power cut · 16-bit fine channel management
Cloud options	Pixelerr App over internet
Software	Pixelerr, Pixelerr Pro — Windows, macOS, Linux, iOS, Android · Studio DMX 3D viewer (Full mode) · DVI outputs optional · A/V timeline: 30 min (1024) / 24 hrs (2048) · worldwide support (EN, FR, CN)
Power	5–24 V DC, 0.3 A · Output: 5 V DC · high-voltage protection
Dimensions	L 120 mm × W 90 mm × D 45 mm
Weight	0.2 kg (0.44 lb)
Housing / I/O connectors	Standard DIN-rail cabinet compatibility · PVC / USB-C · screw terminal blocks with 2×9 + 2×6 pins
Environment	–40 °C to +85 °C · IP40
Compliance / warranty	CE, RoHS · 5 years international warranty

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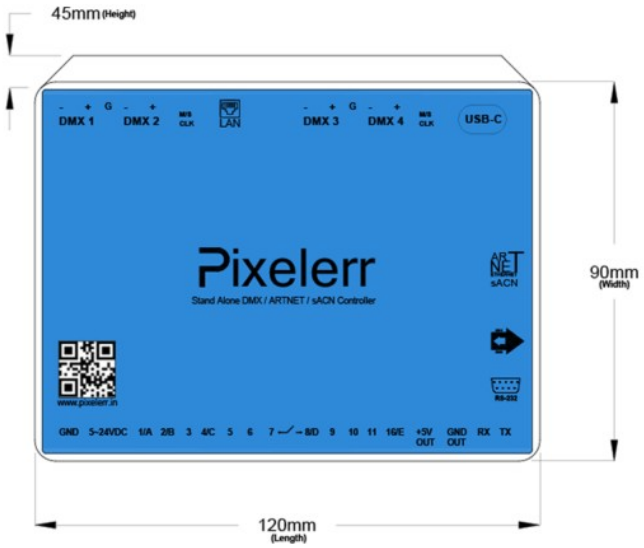
Dimensions

Enclosure — front face



All dimensions in mm.

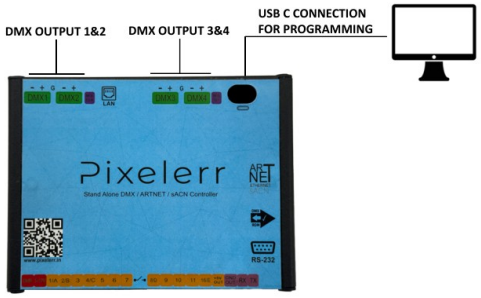
Enclosure

L 120 mm × W 90 mm × D 45 mm; weight 0.2 kg (0.44 lb).

Standard DIN-rail cabinet compatibility. All connections — 4 × DMX, LAN, USB-C, RS232, dry contacts and DC input — are accessible from the front face via screw terminal blocks (2×9 + 2×6 pins).

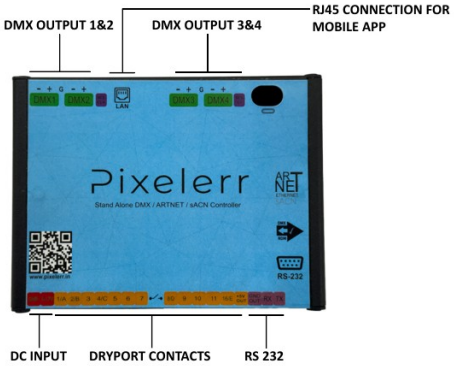
Connections

Live mode



- USB-C connection for programming from PC software; DMX outputs 1–4 remain active. Ethernet (RJ45) carries Art-Net & sACN.

Stand alone mode



- DC input, dry-port contacts and RS232 drive the triggers; RJ45 connects the Pixelerr mobile app. Mount on a standard DIN rail inside the electrical cabinet.

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Configure your product

Choose the model that matches the channel count of your installation. All models share the same DIN-rail housing, connectivity and trigger set.

Model	Configuration	Model	Configuration
PL-DIN 512	1 universe — 512 channels	PL-DIN 2048	4 universes — 2048 channels
PL-DIN 1024	2 universes — 1024 channels	—	Custom specification on request

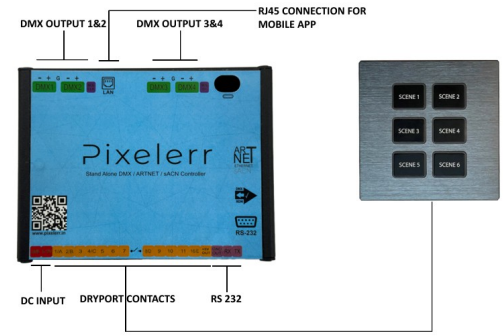
Example product codes

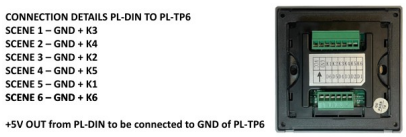
PL-DIN 1024 **Stand Alone DMX Controller — 2 universes, 1024 channels**
PL-DIN 2048 **Stand Alone DMX Controller — 4 universes, 2048 channels**

Touch panel & system requirements

PL-DIN pairs with the PL-TP6 touch panel for direct scene recall, and is configured from the free Pixelerr software (Pixelerr / Pixelerr Pro) or the Pixelerr mobile app over LAN and Internet.

PL-TP6 touch panel connection





Scene	Contact wiring	Note
Scene 1 / 2	GND + K3 / GND + K4	Dry contact
Scene 3 / 4	GND + K2 / GND + K5	Dry contact
Scene 5 / 6	GND + K1 / GND + K6	Dry contact

Connect +5 V OUT from PL-DIN to GND of PL-TP6.

System requirements

- Mobile — Android 5 / iOS 10 and above; 1 GHz CPU, 1 GB RAM, 60 MB disk.
- PC — Windows, macOS, Linux (32 & 64-bit); 2 GHz dual-core CPU, 8 GB RAM, 600 MB disk, 1920 × 1080 resolution; 2 GB graphics card for 3D only; 1 USB port (device), 1 Ethernet port for Art-Net & sACN.
- Commands from the contacts: speed, scene, dimmer, zone. Master/Slave synchronization up to 16 DMX universes.