

# I-ELC4N



*KIOSKcomponents*

Data sheet

## LED Controller / 4 channels (iNtelligent LEDs)

INEX's LED Controller is a part of the *KIOSK components* series of boards which allow kiosk designers to add functionality to their kiosks quickly and effortlessly. I-ELC4N is a lightweight solution for controlling intelligent RGB LED strips.

## Features

- 4 channels for controlling intelligent RGB LED strips
- +5V power supply
- May work either autonomously in accordance with a pre-programmed scenario or while being dynamically controlled from a host via USB
- Works with Windows 7 / Windows 8/ Windows 8.1/ Windows 10 (32 / 64 bit)
- The following animations are available: ON, OFF, BLINK, FLARE, BREATH, WALL, CHASE, GROW, RAINBOW, INWARDS, OUTWARDS, HEARTBEAT

## Windows Integration (PC interface)

- Driver (IEdrive) provided
- Test / Demo application provided

## Technical Specification

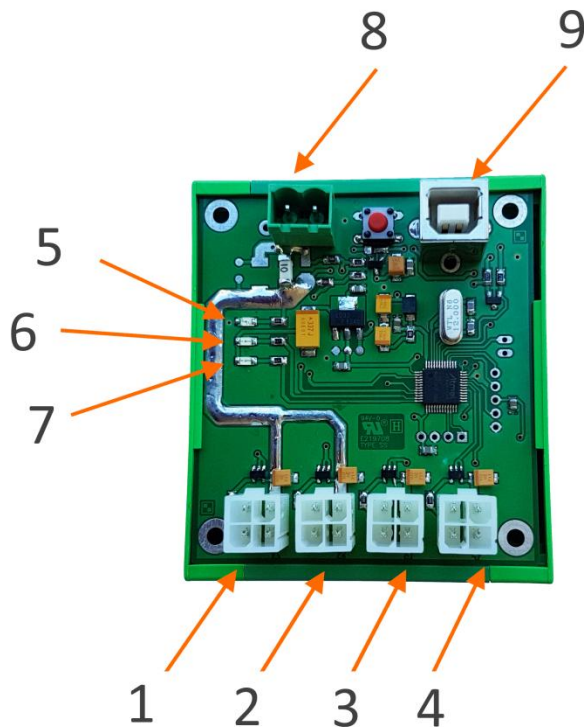
Power supply:	5V via green terminal block
Outputs:	4x 4-pin (2x2) Mini-Fit® Jr™ 5569 connectors
Controlled through:	USB B
Max. output current:	10 A fuse (all channels combined)
Size:	2.80/2.56/0.71 in (no DIN housing) 2.95/2.68/0.98 in (with DIN housing)

## Max. load

In order not to overload I-ELC4N, INEX has the following recommendations:

- Max. output current must not exceed 10 A.
- The number of all LEDs in the strips connected to the board shall not exceed 300.
- One strip connected to a single channel should not consist of more than 100 LEDs, otherwise it may not be lit evenly. Strips with more than 100 LEDs may require additional (external) power supplied directly to the strip itself.

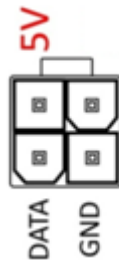
## I-ELC4N Design



- 1-4: channels for controlling intelligent LED strips
- 5: Yellow LED which glows with solid light when power is supplied through the green terminal block
- 6: Green LED which signals data transfer between the PC and I-ELC4N
- 7: Red LED which blinks when the processor is working
- 8: Terminal block used for power supply (5V DC)
- 9: USB B used for plugging the I-ELC4N to the PC

## Connection diagram (board view)

The diagrams below show how to properly connect LED strips, and how to supply power to I-ELC4N. Note! Make sure that power is applied correctly as failing to do so will damage the board and render it unusable.



2x2-pin Mini-Fit® Jr™ 5569



Terminal block

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