

Very small control device for LEDs lightings. Through its l^2C bus, the driver receives consigns to regulate different currents in its 5 LEDs outputs. The user specifies a speed, independent for the 5 outputs, at which the driver will get to the goal current sent by the master. This allows the user to have a full control of a lighting system, easily configurable and with an automatic ultra-low power mode when all the LEDs are switched-off.

Up to 112 devices can be connected to the same $\mathsf{I}^2\mathsf{C}$ bus in daisychain configuration.

This daughter board can easily be soldered directly to a motherboard without any cables through its 32 + 2 plated holes on board edge (1.27mm spacing). In addition to that, 1.27 mm spacing male connector can be soldered to the board, making it plugable, horizontally or vertically, to a dedicated motherboard.



Dimensions

51 x 36 x 6.1 mm (LxBxH), without 1.27mm spacing connector

Electronic interface

Hardware: Software: I2C interface: SDA, SCL (up to 400kHz) Standard I2C register access, 7+1bit address & multibyte data.

Power interface

LEDs power connector DC [9-58V], max current : Σ channels current + 100mA (max 2.6A)

Logic power connector DC [5V], max 50mA, must be delivered to the device (no regulator included).

Consumption in ultra-low power mode: logic 5V typ. 10nA, power 58V typ. 80nA at 25°C, both less than 1uA for each at 85°C.

I2C wake up the device from ultra-low power mode in less 10us.

LED driver

Number of channel:	5
LEDs output voltage:	max (supply voltage – 2V)
Number of LEDs:	(supply voltage – 2V) / LED voltage
LEDs output current:	(each) 0mA, linear 10-500mA ± 5mA, very low current ripple
Switching frequency:	600kHz output-filtered with 100uH + 10uF (cutoff frequency 5kHz)
General IOs:	5 IOs, 5V, A/D inputs, general purpose.

Where to find more information

Please download the user's manual from the following address: http://www.fiveco.ch/leds-drivers-products.html

Developed and made in Switzerland

31082017/1.1 Specifications may change without prior notice

