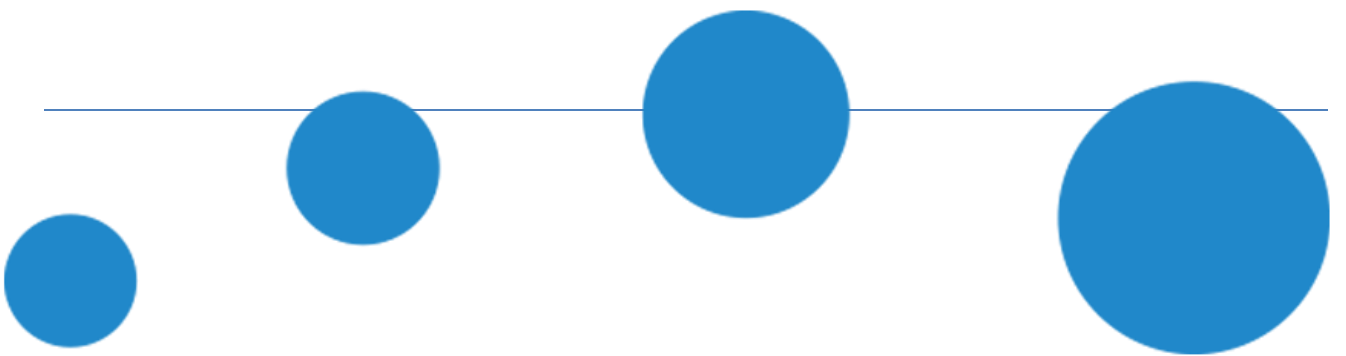

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Enlighten Your Life!



LETUNO VLC DRIVER V1.2
DATASHEET

INTRODUCTION:

Since the development of the light-emitting diode (LED), which has a high efficiency and a long lifespan, LEDs have become the standard for environmentally friendly lighting applications. The LED will progressively replace the incandescent and fluorescent lamp. Due to its greater modulation bandwidth, LED has recently been found to be more appropriate for highspeed communications than traditional light sources. This has advanced the visible light communication (VLC) technology to a new level.

VLC OVERVIEW:






So, what exactly does visible light communication entail? It is to allow the LED to send and receive signals while maintaining the LED illumination function. In other words, it's equivalent to integrating a WiFi router into an LED light. This sounds like it belongs in a science fiction book, doesn't it? This kind of integrated thinking can be observed in numerous contexts, such as when an iPad or phone is equipped with a computer. It can only currently go by the name LIFI, because the wireless W has been replaced with a light L and the electromagnetic wave frequency has changed from GHz (1,000,000,000,000) to THz (1 000 000 000 000).



The graphic below depicts a hypothetical future scenario. People are smiling as they use laptops, and a beam of light from above hits the laptops. This lamp is remarkable in that it not only brightens the space but also serves as a router for the notebook's network.



PRODUCT DESCRIPTION

Letuno VLC driver is responsible for converting the lighting LED bulb into an indoor geolocation system by. The Driver has been made to be simple to install and maintain, whether it is attached inside to the driver housing or externally from the driver and LED bulbs.

 VLC CHARACTERISTICS	
Type of product	VLC Driver
Main characteristics	Processor core 32MHz.
Communication standard	IEEE 802.15.7
 OPERATING CONDITION	
Working temperature T_w	$0^{\circ}\text{C} < T_w < 85^{\circ}\text{C}$
Humidity	as driver's or LED
Storage temperature	$0^{\circ}\text{C} < T_w < 85^{\circ}\text{C}$
 INPUT/OUTPUT CONNECTORS	
Input	via terminal blocks (5 mm 5- 200 VDC)
Output	via terminal blocks (5 mm 5- 200 VDC)
 INPUT SPECIFICATIONS	
DC Voltage	5 to 200VDC
Current	2A max
LED's Driver minimal power	1,5 W
LED's Driver maximum power	400 W
 OUTPUT SPECIFICATIONS	

DC Voltage	5-380VDC
Maximum Current	2A
Maximum Power Consumption	0,7 W
VLC Response time	<1s
 MECHANICAL CHARACTERISTICS	
Length (mm)	70.1
Wide (mm)	56.
High (mm)	40
Weight (g)	17
 HOUSING SPECIFICATIONS	
Type	Plastic
Color	White
Protection Level	IP 50