

CE FC ROHS



Zigbee Wireless Constant Voltage LED Dimming Module

GRE Alpha's Zigbee dimming module is a 240 watt Constant Voltage dimming device that operates based on IEEE 802.15.4 and the Zigbee 3.0 standard. Offering best-in-class interoperability between major lighting eco-systems (Philips,OSRAM, AMAZON Echo and more) and provides device to device vs cloud-to-cloud connectivity without the reliance on extrenal gateway or connection to the internet. Simple and easy to install, this compact device also supports connecting directly to a ZigBee GreenPower switch for battery-less dimming enabling seamless upgrade to Zigbee Smart lighting networks.

Features

- Based on international standards IEEE 802.15.4 and ZigBee 3.0
 True interoperability with major eco-systems like Philips, IKEA, OSRAM and ubisys. Interoperability is device-to-device, not a cloud-to-cloud no reliance on internet connectivity
- Can be controlled in multiple ways, seamlessly and concurrently: using a hub,remote controls, mains-powered (ubisys C4), battery-powered (e.g. Philips dimmer switch) or battery-less (e.g. EnOcean ZGP) switches, on/off occupancy sensors (e.g. IKEA), etc.
- Can be directly controlled by battery-less ZigBee Green Power switches (recommendation: new/upcoming enocean PTM216Z generic switch module)
- When combined with ubisys G1, lights can be controlled using smartphone apps, HomeKit, or Amazon Alexa, or based on schedules etc.
- Lights can be grouped and either controlled individually or as a group (either using a gateway or a simple remote control)
- Over-the-air fimware upgrade capable ubisys G1 or any other Zigbee
 OTA server can deploy new firmware with enhancenments and bug-fixes
- Prepared for Bluetooth Low-Energy for simple applications (requires a future firmware-upgrade)

Applications

- Architectural Lighting
- Warehouses
- Signage
- Strip Lighting
- Swimming Pools/Fountain lighting

	del Input Voltage Range(Vdc)	Channel(s) Output	Output Rating		Max Output Power
Model			Voltage (VDC)	Max. Current (All Channels) (A)	(All Channels) (W)
SLD-DIM-ZB	8 - 48	1	Vin - 0.3V	5	240

*- SLD-DIM-ZB dimming module requires an external CV LED driver, connected to the DC input, and should not exceed the above input voltage range.



Input Specification					
Voltage Range	Please refer model table	Input Current	5.2A max (per channel)		
Control	Zigbee Standard	Over Voltage	Auto Recovery upon input voltage under Vin (max)		
Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.	Under voltage Logout	Auto Recovery upon input voltage under Vin (max)		
Over Temperature Protection	Auto recovery upon operating temperature <105°C				

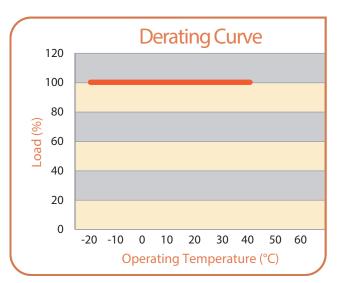
Output Specification						
Output Frequency	7.8 kHz PWM	Output Current	5A max. at full load **			
Power Efficiency	97% Typ	Dimming Ratio	1:100			

^{** -} SLD-DIM-ZBdimming module max. output current is dependent on LED driver output current, which should not exceed the Class 2 maximum of 5A or 100W per output channel.

Environmental Specification

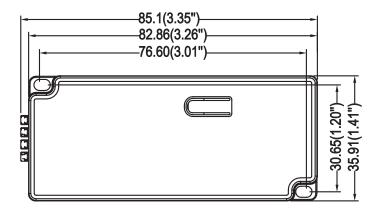
Ambient Temperature	Storage Temp	Relative Humidity
- 20°C ~ 40°C (Full Load)	- 40°C - 85°C	5% - 93 %

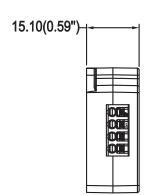
Compliance / Safety				
Zigbee Standard				
IP 20				
Mechanical Specification				
s 85.1mm (L) x35.9 mm (W) x 15.1mm (H)				
Polycarbonate White				
Vin+, Vin-, LED+, LED-				

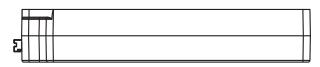




Mechanical Diagram



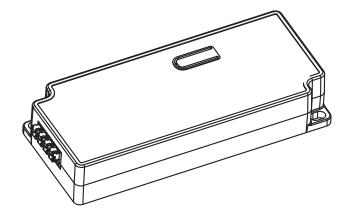




Packing Information:

Weight: 0.031kg/pc; 4.5kg/carton;

100pcs/carton; 212(L)*192(w)*220(H)mm



Linking Instructions

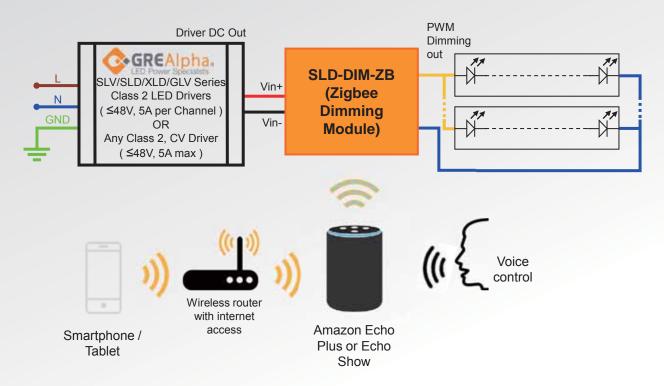
- 1. For linking with a switch/dimmer, follow the linking instructions from the switch/dimmer installation guide to search for a new device
- 2. Turn on the SLD-DIM-ZB dimming module and press the Link button for around 10 sec to enter into linking mode
- 3. Red light on the Link button flashes rapidly Dimming module enters into linking mode
- 4. If linking is successful, red light stays on for a few seconds
- 5. Return to and follow the switch/dimmer's instructions to complete the setup
- 6. To unlink a linked switch/dimmer or to link to a different switch/dimmer, press the Link button for around 10 sec (to enter into linking mode again). Repeat the above steps to link to a new switch/dimmer

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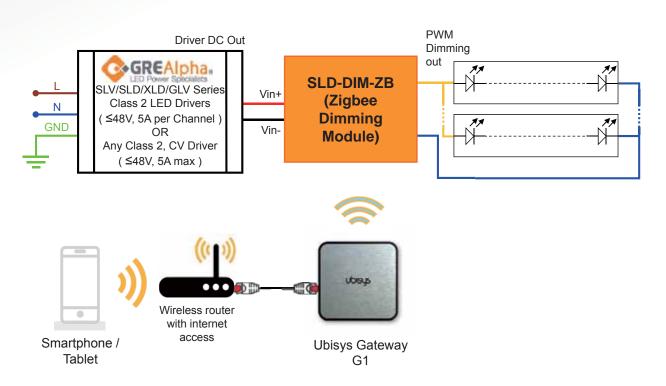


Wiring Diagrams



-* 0-100% flicker-free performance not guaranteed when used with non-GRE Alpha CV Drivers

Amazon Echo Plus / Echo Show

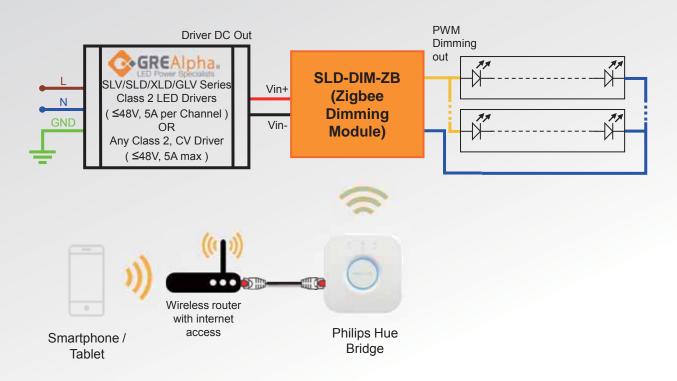


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Ubisys Gateway G1

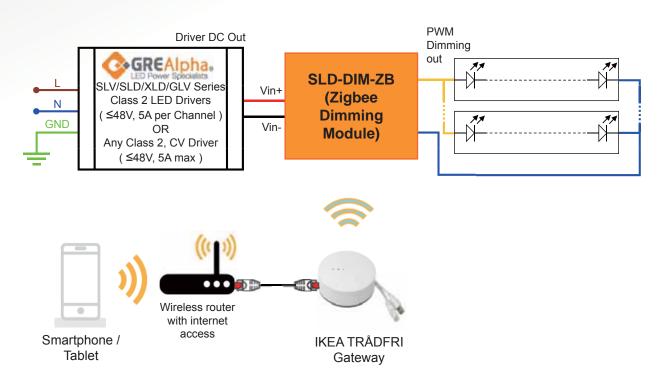


Wiring Diagrams



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Philips Hue

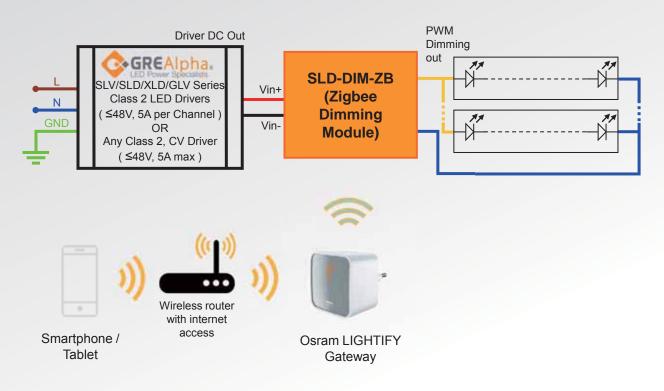


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IKEA TRÅDFRI

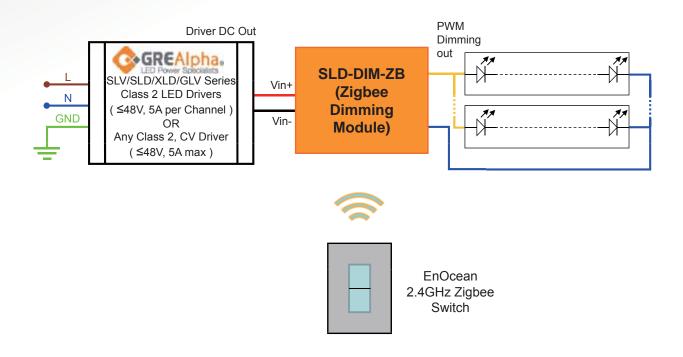


Wiring Diagrams



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Osram LIGHTIFY



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EnOcean