SLD-DIM-CB4

Casambi Dimming Module

SLD DIM CB4/ CB4UL Dimming Module

GRE Alpha's Casambi enabled dimming module is a 400 Watt, 4-channel output Constant Voltage LED dimming module that allows for seamless integration with Casambi-enabled luminaires, sensors, wall mounted and wireless switches.

Features

- Wireless Bluetooth Low Energy communication
- 4 Channel output
- Free Casambi App on Android and iOS
- Unlimited number of luminaire connections
- Comply with EN55015 and FCC Part 15 without additional input filter or capacitor
- Easy to Install, high reliability
- 3 years warranty

Applications

- Retrofit lighting
- Commercial, retail, residential Lighting
- Museum, Hotel, Office lighting
- Color changing, RGBW Lighting

Model	Input			Output				
	Input Voltage Range(VDC)	Channel(s) Current Per Channel(A)	Channel(s) Input	Channel(s) Output	Voltage (VDC)	Max. Current Per Channel(A)	Max Output Power (Per Channels) (W)	Max Output Power (All Channels) (W)
SLD-DIM-CB4	8 - 48	12	1	4	Vin - 0.3V	5	100	400
SLD-DIM-CB4-UL	8 - 48	5	4	4	Vin - 0.3V	5	100	400

*- SLD-DIM-CB4 dimming module requires an external CV LED driver, connected to the DC input, and should not exceed the above input voltage range.
*- UL Class 2 certified for use with UL Class 2 LED Drivers.

*- UL marking only for SLD-DIM-CB4-UL MODEL

Input Specification

Voltage Range	Please refer model table	Input Current	Please refer model table
Control	Bluetooth 4.0	Over Voltage	Auto Recovery upon input voltage under Vin (max)
Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.	Over Temperature Protection	Auto recovery upon operating temperature <105℃

Output Specification

Output Frequency	1.6 kHz PWM	Output Current	5A max. at full load **
Power Efficiency	97% Typ	Dimming Ratio	1:1000

** - SLD-DIM-CB4 dimming 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	Pollution Degree	Protection Against Electric Shock Class	Overvoltage Category	Storage Temp	Relative Humidity
- 20°C ~ 40°C (Full Load)	2	Class Ⅲ	Ⅰ	- 40°C - 85°C	5% - 93 %

Compliance / Safety

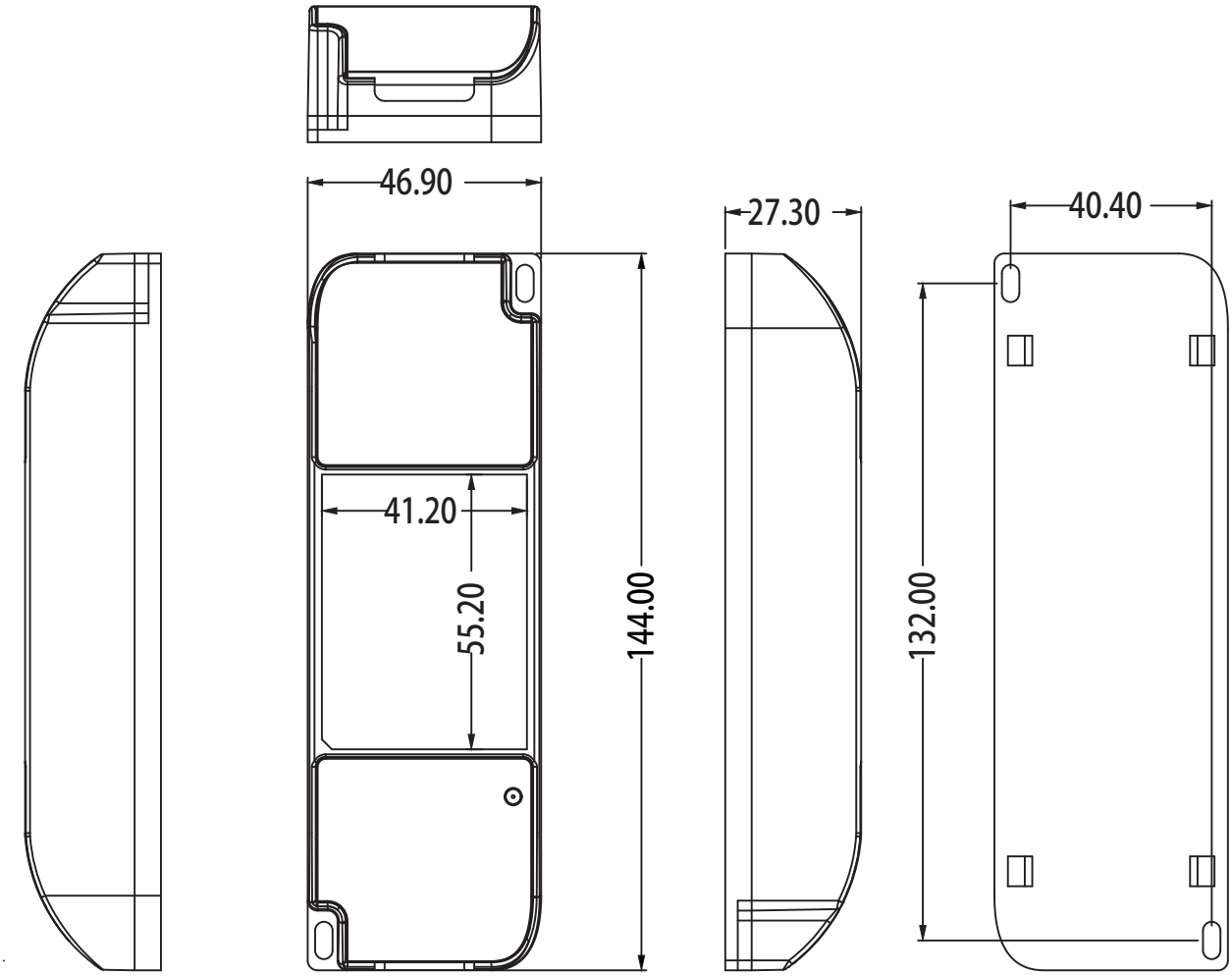
Wireless Standards:	Bluetooth 4.0
Weatherability:	IP 20 -- SLD-DIM-CB4 IP 65 -- SLD-DIM-CB4-UL

Mechanical Specification

Power Unit Dimensions	SLD-DIM-CB4: 144mm (L) x46.9mm (W) x 27.3mm (H) SLD-DIM-CB4-UL: 98mm (L) x44mm (W) x 14.5mm (H)
Case Design/Material	Polycarbonate White
Connections	SLD-DIM-CB4:WAGO terminal block connectors; 24-16 AWG(0.25-1 mm) Use Copper Conductors Only; LED1+, LED1-, Vin+, Vin-, LED2+, LED2-, SLD-DIM-CB4-UL: Flying leads 18 AWG, Vin1+, Vin1-, Vin2+, Vin2-, Vin3+, Vin3-, Vin4+,Vin4-, LED1+, LED1-, LED2+, LED2-,LED3+, LED3-, LED4+, LED4-

Mechanical Diagram

SLD-DIM-CB4



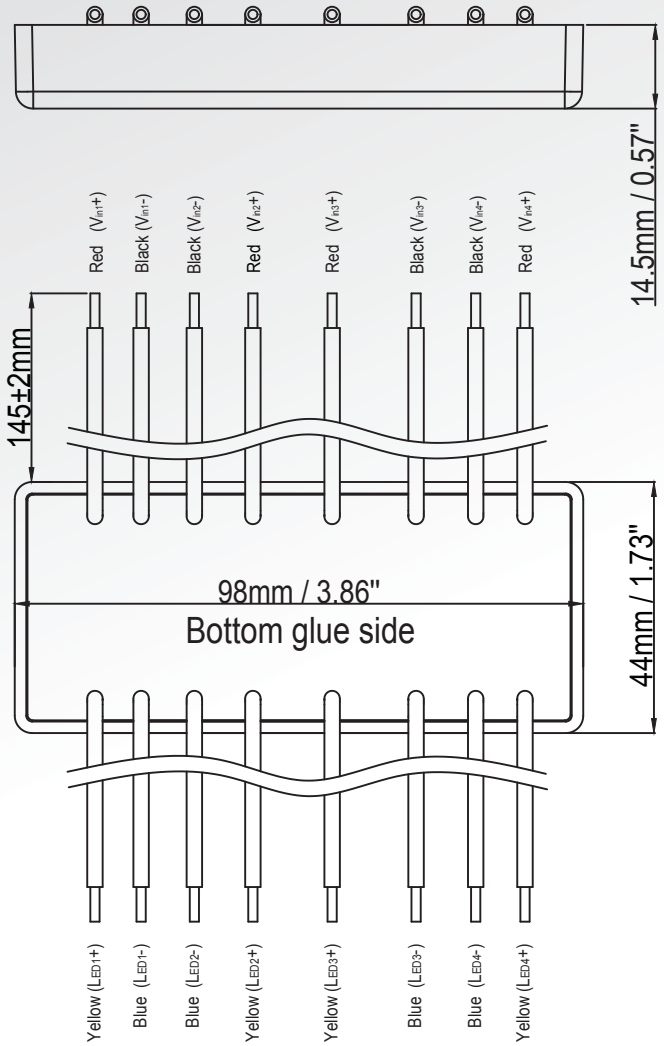
Packing Information:

0.04kg/pc; 150 pcs/carton;

6.8kg/ carton; L435*W250*L193(mm)

Mechanical Diagram

SLD-DIM-CB4-UL



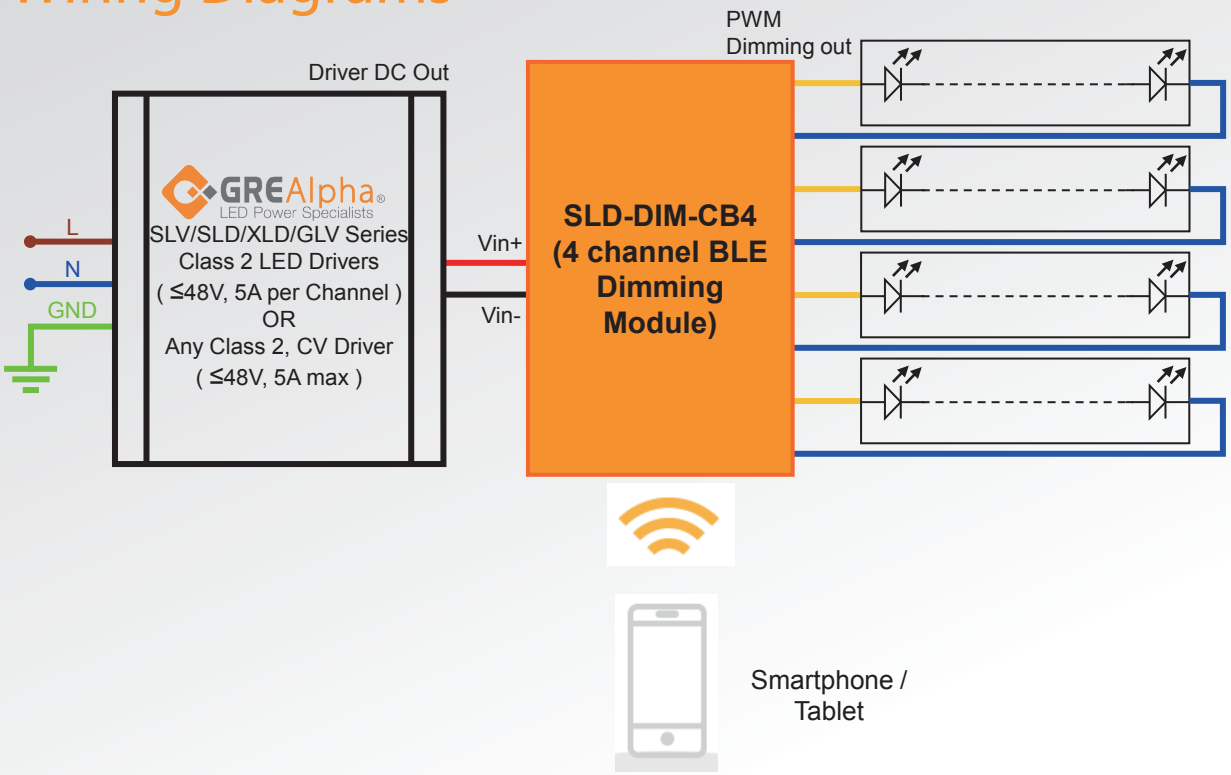
Input Wire	
Black	Vin1 -
Red	Vin1 +
Red	Vin2 +
Black	Vin2 -

Output Wire	
Yellow	Warm +
Yellow	Cool +
Blue	Warm -
Blue	Cool -

Control Wire	
Purple	to 0/1-10V Control 1
Gray	to 0/1-10V Control 1
Purple	to 0/1-10V Control 2
Gray	to 0/1-10V Control 2

Packing Information
0.10 kg/pcs ; 100pcs/carton;
12.0 kg /carton; L270xW220xH430 (mm)

Wiring Diagrams



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

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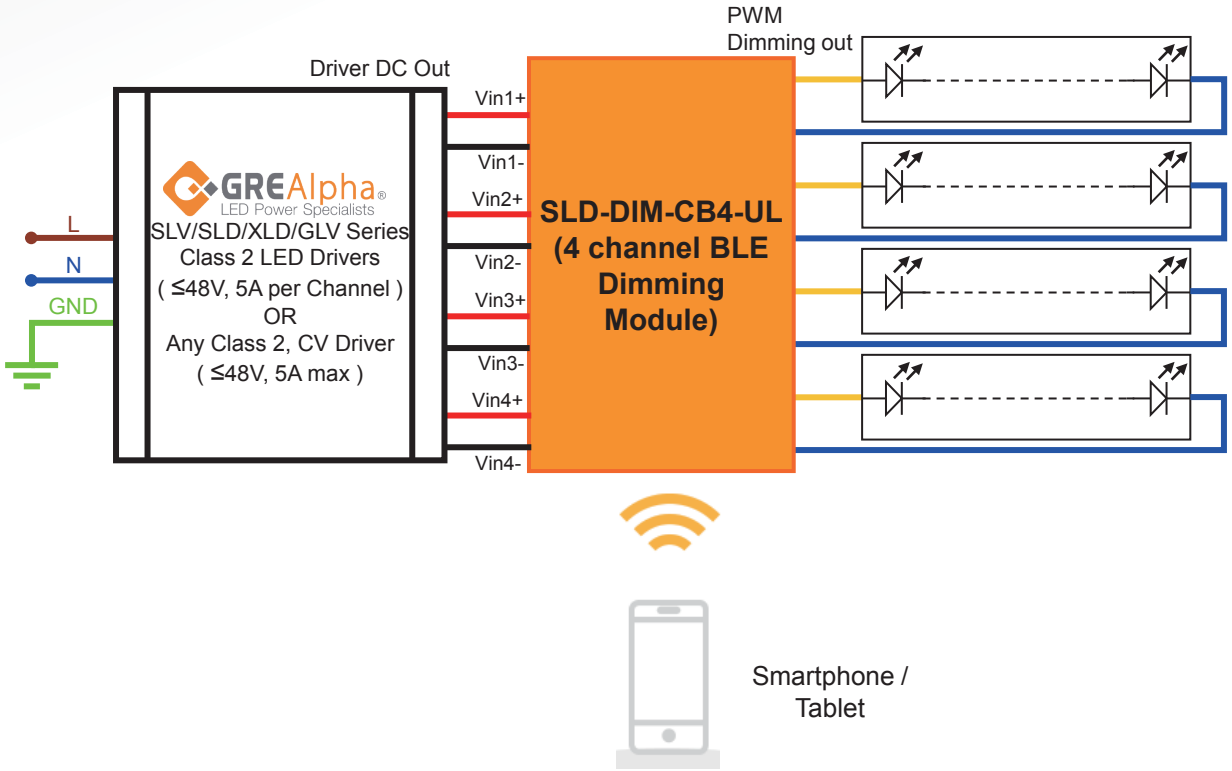

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SLD-DIM-CB4-UL

First Time Use/Pairing Instructions

1. Connect the SLD-DIM-CB dimming module per the Wiring Diagram.

2. Power on.

3. Download the Casambi App from the App Store (for iOS devices) or Google Play (Android devices) and follow the instructions on the Casambi App.

This dimming module can operate in different modes. For information on how to change to different operating modes, please refer to the "Casambi Ready Dimming Module Set Up and User Instructions" on our website.