DALCNET S.r.I.

Registered office: via Meucci, 35 - 36040 Brendola (VI) - Italy Headquarters: via Meucci, 35 - 36040 Brendola (VI) - Italy Tel. + 39 0444 1836680/1867452 Fax. + 39 0444 1867453 VAT: IT-04023100235 info@dalcnet.com www.dalcnet.com

DLX1224 multi channel CASAMBI Device Manual



CE





FEATURES

- DIMMER+DRIVER CASAMBI
- Input: DC 12-24 Vdc
- Command: APP CASAMBI
- Local Command: N°4 Push Buttons Normally Open (N.O.)
- Control: Dimmer White, Tunable White, Color RGB o RGBW
- Voltage or Current output for LED strip
- Typical efficiency > 95%
- Extended temperature range
- 100% Functional Test



Product description:

→

DALC

NET

This DLX1224 at 4 channels with CASAMBI module allows to control all kind of leds: White, Tunable White, RGB and RGBW.

Through this Dalcnet device it is possible to adjust the luminous brightness, to create multiple color scenes and settle color games, thanks to all commands available on "CASAMBI APP". The device is also provide with 4 analog input (n°4 Push Buttons Normally Open) to control up to four different scenes.

With Casambi APP it is possible to control Led lights just from one view, by taking a photo of the lamps in a room, or by creating different scenarios.

<u>Controlling all your lamps from one view</u>, it is possible to control all your lighting fixtures with one view, individually or as a group. For example it is possible create a group of lights within home (eg. bedroom, kitchen, etc..) as in the workplace (eg. offices, showroom, etc..) and turn all off / on or dim with just one tap

<u>Control your lights from a photo.</u> It is possible to control only the lights you desire, just taking a photo of the room, and putting the icon of the lamp on the real position.

<u>Create scenes for different lighting situations:</u> Thanks to this function it is possible to create and store on the app many scenarios with different levels of brightness, different color temperature or RGB scenes.

Download the free Casambi APP on APP STORE and GOOGLE PLAY. Necessary conditions for a correct function are:

- Devices with S.O. APPLE iOS 8.2 o later version
- Devices with S.O. ANDROID 4.4 o later version
- Normally Open Push Buttons (N.O.)
- · Casambi App, download for free on App Store and Google Play



For the whole and updated Device Manual refer to producer's website: http://www.dalcnet.com

For the correct functioning of CASAMBI APP refer to the CASAMBI website: <u>http://www.casambi.com</u>





DALCNET S.r.I. Registered office: via Meucci, 35 - 36040 Brendola (VI) - Italy Headquarters: via Meucci, 35 - 36040 Brendola (VI) - Italy Tel. + 39 0444 1836680/1867452 Fax. + 39 0444 1867453 VAT: IT-04023100235 info@dalcnet.com www.dalcnet.com

DLX1224 multi channel CASAMBI **Device Manual**



Products Code

Constant current variants (common anode)

CODE	Supply Voltage	Output	Channels	Commands
DLX1224-4CC350-CASAMBI	12-24V DC	4x350mA	4	APP CASAMBI – 4 push buttons N.O.
DLX1224-4CC500-CASAMBI	12-24V DC	4x500mA	4	APP CASAMBI – 4 push buttons N.O.

The factory default profile of the product is DLX4-CBM-RGBW variant RGBW In case you want to use profiles like DLX4-CBM-W (White), DLX4-CBM-TW (Tunable White) or DLX4-CBM-RGB (RGB), it is necessary to log in Casambi website and download the desired profile.

Constant voltage variants (common anode)

CODE	Supply Voltage	Output	Channels	Commands
DLX1224-4CV-CASAMBI	12-24V DC	4 x 5A (max 10A tot.)	4	APP CASAMBI – 4 push buttons N.O.

The factory default profile of the product is DLX4-CBM-RGBW variant RGBW

In case you want to use profiles like DLX4-CBM-W (White), DLX4-CBM-TW (Tunable White) or DLX4-CBM-RGB (RGB), it is necessary to log in Casambi website and download the desired profile.

Protections

Variant		CC	CV			
ОТР	Over temperature protection	✓				
OVP	Over voltage protection	✓	✓ (*)			
UVP	Under voltage protection	✓	✓ (*)			
RVP	Reverse polarity protection	✓	✓ (*)			
IFP	Input fuse protection	\checkmark	✓ (*)			
SCP	Short circuit protection	\checkmark				
OCP	Open circuit protection	\checkmark				
CLP	Current limit protection	\checkmark				
(*) Logic control protection						

Type of Profiles

PROFILE	Supply Voltage	Output	Channels	Commands	
DLX4-CBM-W	12-24V DC	4 x CC/CV	4	APP CASAMBI – 4 push buttons N.O.	DIMMER
DLX4-CBM-TW	12-24V DC	2 x CC/CV	2	APP CASAMBI – 4 push buttons N.O.	TUNABLE WHITE
DLX4-CBM-RGB	12-24V DC	3 x CC/CV	3	APP CASAMBI – 4 push buttons N.O.	RGB
DLX4-CBM-RGBW	12-24V DC	4 x CC/CV	4	APP CASAMBI – 4 push buttons N.O.	RGBW





DALCNET S.r.I.

Registered office: via Meucci, 35 - 36040 Brendola (VI) - Italy Headquarters: via Meucci, 35 - 36040 Brendola (VI) - Italy Tel. + 39 0444 1836680/1867452 Fax. + 39 0444 1867453 VAT: IT-04023100235 info@dalcnet.com www.dalcnet.com

DLX1224 multi channel CASAMBI



Device Manual

Reference Standards

EN 61347-1:2008+A1:2011+A2:2013	Lamp controlgear - Part 1: General and safety requirements
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN 62384:2006+A1:2009	DC or AC supplied electronic control gear for LED modules - Performance requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Technical Specification

		Variants						
		Constant current				Constant voltage		
Supply voltage	DC min: 10.8 Vdc max: 26.4 Vdc							
Input current	max 2 A				max 10A			
Output voltage	min: Vin/4; max: Vin-0,9V				= Vin			
Output current		Variant 350mA		Variant 500mA				
		350mA/ch	max 1,4 A total	500mA/ch	max 2 A total	max 5 A/ch ¹⁾	max 10 A total ^{1) 3)}	
		1ch	Max 4ch	1ch	Max 4ch			
Nominal power ¹⁾	@12V	4,2W/ch	16,8 W	6W/ch	24 W	60W/ch	120 Wmax	
	@24V	8,4W/ch	33,6 W	12W/ch	48 W	120W/ch	240 Wmax	
Thermal shutdown		150 °C				150 °C		
D-PWM dimming frequency		600 Hz ²⁾						
D-PWM resolution		833 Step ²⁾						
Operating frequencies		2,4002,483 GHz ²⁾						
Maximum output power					4dBm ²⁾			
Storage Temperature		min: -40 max: +60 °C						
Ambient Temperature ¹⁾		min: -10 max: +40 °C						
Protection grade		IP20						
Wiring		2.5mm ² solid - 1.5mm ² stranded - 30/12 AWG						
Mechanical dimension		88 x 54 x 25 mm						
Packaging dimension		106 x 59 x 36 mm						
Weight		80g						

¹⁾Maximum value, depends on the ventilation conditions.

³ The values depend on the configuration of the Casambi module. ³ For values depend on the configuration of the Casambi module. ³ For the voltage version the device provides max 10A ($I_{TOT} = I_{L1} + I_{L2} + I_{L3} + I_{L4}$). Each channel provides max 5A.

LED DRIVERS





DALCNET S.r.I.

Registered office: via Meucci, 35 - 36040 Brendola (VI) - Italy Headquarters: via Meucci, 35 - 36040 Brendola (VI) - Italy Tel. + 39 0444 1836680/1867452 Fax. + 39 0444 1867453 VAT: IT-04023100235 info@dalcnet.com www.dalcnet.com





Mechanical Dimensions:







25



