



DALCNET s.r.l.
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CBU MASTER BUS & CBU REPEATER



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Device Manual



FEATURES

- CONVERTER+CASAMBI+BUS
- REPEATER CASAMBI
- Input: 230Vac
- Command: APP CASAMBI
- Signal converter from Casambi to DALI o DMX, in MASTER Variant
- Signal repeater, in REPEATER Variant
- Possibility to control DALI or DMX device, by Casambi APP
- Extended temperature range
- 100% Functional test – 5 Years warranty

> PRODUCT CODE

CODE (*)	Input Voltage	Input Command	Output Command	
CBU-MASTER-DALI-IP	230Vac	APP CASAMBI	DALI	CONVERTER
CBU-MASTER-DMX-IP	230Vac	APP CASAMBI	DMX	CONVERTER
CBU-REPEATER-IP	230Vac	APP CASAMBI	REPEATER	REPEATER

The management of Addresses (DALI Variant) or Channels (DMX Variant) depends on the Casambi module configuration.

(*) The product is sold with a standard internal antenna supplied with the Casambi module.

> PROTECTION

OVP	Over voltage protection (**)	✓
IFP	Input fuse protection (**)	✓

(**) Only control logic protection

CONVERTER

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➤ TYPE OF PROFILES SELECTABLE FROM CASAMBI APP

Profile DMX	Default Profile	Output Addresses / channels	Command	
DGD W		1	APP CASAMBI	DIMMER
DGD WWWW	✓ Ver DMX	4	APP CASAMBI	DIMMER DIMMER DIMMER DIMMER
DGD TW		2	APP CASAMBI	BIANCO DINAMICO
DGD RGB		3	APP CASAMBI	RGB
DGD RGBW		4	APP CASAMBI	RGB W
DGD MRGB+S		5	APP CASAMBI	Master RGB Strobo
DGD MRGBW+S		6	APP CASAMBI	Master RGB W Strobo
DGD Moving MRGBWS		8	APP CASAMBI	MOVING HEAD DMX

Profile DALI	Default Profile	Output Addresses / channels	Command	
MASTER DALI	✓ Ver DALI	BROADCAST	APP CASAMBI	DIMMER
W AUTOMATIC		1	APP CASAMBI	DIMMER
WW AUTOMATIC		2	APP CASAMBI	DIMMER DIMMER
WWW AUTOMATIC		3	APP CASAMBI	DIMMER DIMMER DIMMER
WWWW AUTOMATIC		4	APP CASAMBI	DIMMER DIMMER DIMMER DIMMER
TW AUTOMATIC		2	APP CASAMBI	BIANCO DINAMICO
RGB AUTOMATIC		3	APP CASAMBI	RGB
RGB+W AUTOMATIC		4	APP CASAMBI	RGB W
WWWW GROUP		4	APP CASAMBI	DIMMER DIMMER DIMMER DIMMER
TW GROUP		2	APP CASAMBI	BIANCO DINAMICO
RGB GROUP		3	APP CASAMBI	RGB
RGB+W GROUP		4	APP CASAMBI	RGB W

Profile REPEATER	Command
REPEATER	APP CASAMBI



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> TECHNICAL SPECIFICATION

CBU MASTER & CBU REPEATER	
Nominal Voltage	230 Vac
Voltage Range	100...240 Vac
Mains Frequency	50/60 Hz
Nominal Power @230V ¹⁾	3W max
Power loss in stand by mode	<500mW
Storage Temperature	min: -40 max: +60 °C
Ambient Temperature ¹⁾	min: -25 max: +60 °C
Protection grade	IP66
Mechanical dimensions	90 x 90 x 65 mm
Casing material	Plastic
Weight	88g
Only for BUS DALI	
I out (only for DALI)	150mA
Vout (only for DALI)	15V

¹⁾ maximum value, dependent on the ventilation conditions.

TECHNICAL NOTE

Installation:

- Isolate the mains supply before the installation or adjusting the switches. Installation and maintenance must be performed in the absence of AC Voltage.
- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- The product must be installed inside an electrical cabinet protected against overvoltages.
- The external supply must be protected. The product must be protected from Fuse and/or Circuit Breaker with overcurrent protection correctly dimensioned
- The product must be installed only in a vertical or horizontal position with the cover / label pointing upwards or vertically; No other positions are allowed. Bottom-up position is not permitted (downward label).
- The use of the product in harsh environments could limit the output power.
- Keep the circuits at 230V (LV) and the no SELV circuits separated from extra low voltage circuits (SELV)

Command

- The length and type of the connection cables at the BUS (DMX512, DALI or other) use cables as per specification of the respective protocols and regulations and they should be isolated from every wiring or parts at voltage not SELV. It is suggested to use double insulated shielded and twisted cables.
- All the product and the control signal connect at the bus (DMX512, DALI, or other) must be SELV (the devices connected must be SELV or supply a SELV signal)

WARNING: For optimal functionality of the Casambi signal, do not put the device into metal or aluminum boxes and do not shield the device. As any other Casambi product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block all radio signals which are crucial to the operation of the product.



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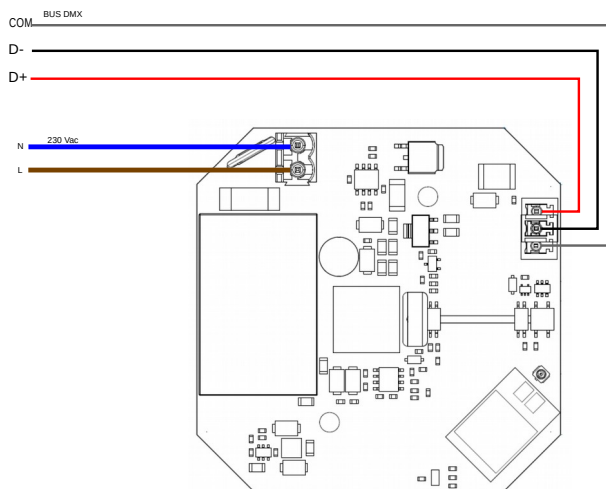


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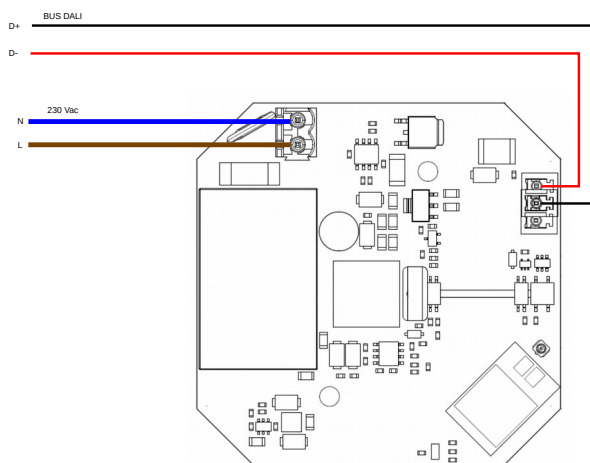
INSTALLATION

Install the product following the below scheme

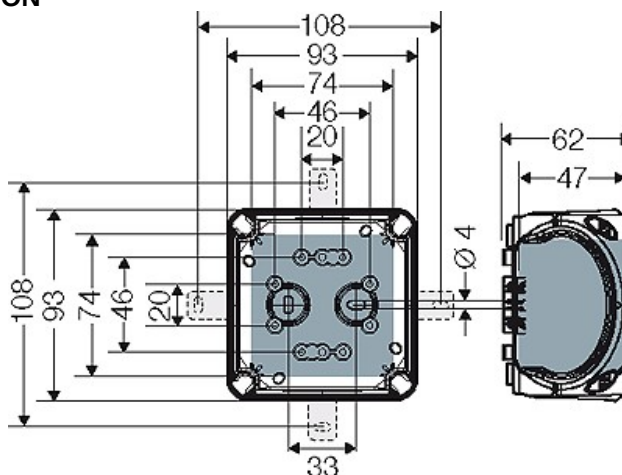
DMX BUS CONNECTION



DALI BUS CONNECTION



MECHANICAL DIMENSION



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➤ **CBU-REPEATER-IP SETUP
CASAMBI SIGNAL REPEATER**

Characteristics:

The CBU-REPEATER-IP is a Casambi Repeater.
The device receives a Casambi bluetooth signal and repeats it.

Status Led:

The status of LED is fixed on to indicate the correct power connection to the device.



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➤ CBU-MASTER-DALI-IP SETUP CASAMBI SIGNAL CONVERSION INTO DALI PROTOCOL

Characteristics:

The CBU-MASTER-DALI-IP is a Casambi to DALI Converter.
 The device receives a command signal from Casambi APP and converts the signal into a DALI command.
 See the following table "ADDRESSES MAP - DALI" for reference of Casambi-DALI conversion addresses.

Status Led:

The status of LED is fixed on to indicate the correct power connection to the device.

NOTE: CBU-MASTER-DALI-IP do not need a DALI Bus power Supply.
 At switching on, all channels are set at same value 254.

ADDRESSES MAP - DALI

With "AUTOMATIC" Fixture the CBU-MASTER-DALI-IP addressing automatically the devices connected to the DALI BUS.

Type of Load: BROADCAST

Addr	Function	Map: Dimmer
+ALL	Dimmer 1	Dimmer (Brightness Value) 0 .. 254

Load Type: W AUTOMATIC – only one load

Addr.	Function	Map: Dimmer
A0	Dimmer 1	Dimmer (Brightness Value) 0 .. 255

Load Type: WW AUTOMATIC – up to 2 loads

Addr.	Function	Map: Dimmer
A0	Dimmer 1	Dimmer (Brightness Value) 0 .. 255
A1	Dimmer 2	Dimmer (Brightness Value) 0 .. 255

Load Type: WWW AUTOMATIC – up to 3 loads

Addr	Function	Map: Dimmer
A0	Dimmer 1	Dimmer (Brightness Value) 0 .. 255
A1	Dimmer 2	Dimmer (Brightness Value) 0 .. 255
A2	Dimmer 3	Dimmer (Brightness Value) 0 .. 255

Load Type: WWWW AUTOMATIC – up to 4 loads

Addr.	Function	Map: Dimmer
A0	Dimmer 1	Dimmer (Brightness Value) 0 .. 255
A1	Dimmer 2	Dimmer (Brightness Value) 0 .. 255
A2	Dimmer 3	Dimmer (Brightness Value) 0 .. 255
A3	Dimmer 4	Dimmer (Brightness Value) 0 .. 255

Load Type: TW AUTOMATIC – up to 2 loads

Addr.	Function	Map: Tunable White
A0	Warm White	Dimmer Warm White (Brightness Value) 0 .. 255
A1	Cool White	Dimmer Cool White (Brightness Value) 0 .. 255

CONVERTER



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Load Type: RGB AUTOMATIC

Addr.	Function	Map: RGB
A0	R	R 0 .. 255
A1	G	G 0 .. 255
A2	B	B 0 .. 255



Load Type: RGB+W AUTOMATIC

Addr.	Function	Map: RGBW
A0	R	R 0 .. 255
A1	G	G 0 .. 255
A2	B	B 0 .. 255
A3	W	W 0 .. 255

GROUP MAP – DALI

With "Group" Fixture the CBU-MASTER-DALI-IP sends group commands. The devices must be addressed by a Master DALI.

Load Type: WWWW GROUP – up to 4 group

Group	Function	Map: Dimmer
G0	Dimmer 1	Dimmer (Brightness Value) 0 .. 255
G1	Dimmer 2	Dimmer (Brightness Value) 0 .. 255
G2	Dimmer 3	Dimmer (Brightness Value) 0 .. 255
G3	Dimmer 4	Dimmer (Brightness Value) 0 .. 255

Load Type: TW GROUP – up to 2 group

Group	Function	Map: Tunable White
1	Warm White	Dimmer Warm White (Brightness Value) 0 .. 255
2	Cool White	Dimmer Cool White (Brightness Value) 0 .. 255



Load Type: RGB GROUP

Group	Function	Map: RGB
G0	R	R 0 .. 255
G1	G	G 0 .. 255
G2	B	B 0 .. 255



Load Type: RGB+W GROUP

Group	Function	Map: RGBW
G0	R	R 0 .. 255
G1	G	G 0 .. 255
G2	B	B 0 .. 255
G3	W	W 0 .. 255



➤ **CBU-MASTER-DMX-IP SETUP
 CASAMBI SIGNAL CONVERSION INTO DMX PROTOCOL**

Characteristics

The CBU-MASTER-DALI-IP is a Casambi to DMX Converter.
 The device receives the command signal from Casambi APP and convert it into a Fixed sequence of DMX addresses.
 See the following " CHANNELS MAP – DMX" table for reference to the mode of conversion.

Status Led:

Status LED is fixed on when the Casambi command is right transmitted.
 Status LED slowly flashes (1 flash per second), when the device receives power

CHANNELS MAP – DMX

Load Type: White – up to 4 loads

Ch.	Function	Map: Dimmer
1	Dimmer 1	Dimmer (Brightness Value) 0 .. 255
2	Dimmer 2	Dimmer (Brightness Value) 0 .. 255
3	Dimmer 3	Dimmer (Brightness Value) 0 .. 255
4	Dimmer 4	Dimmer (Brightness Value) 0 .. 255

Load Type: Tunable White – up to 2 loads

Ch.	Function	Map: Tunable White
1	Warm White	Dimmer Warm White (Brightness Value) 0 .. 255
2	Cool White	Dimmer Cool White (Brightness Value) 0 .. 255

Load Type: RGB

Ch.	Function	Map: RGB
1	R	R 0 .. 255
2	G	G 0 .. 255
3	B	B 0 .. 255

Load Type: Mater+RGBW+Strobo

Ch.	Function	Map: MRGB+
1	Master Dimmer	Master Dimmer (Brightness Value) 0 .. 255
2	R	R 0 .. 255
3	G	G 0 .. 255
4	B	B 0 .. 255
5	Strobo Rate (*)	STROBO 0 .. 255

Load Type: RGBW

Ch.	Function	Map: RGBW
1	R	R 0 .. 255
2	G	G 0 .. 255
3	B	B 0 .. 255
4	W	W 0 .. 255



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Load Type: Master+RGBW+Strobo

Ch.	Function	Map: MRGBW+
1	Master Dimmer	Master Dimmer (Brightness Value) 0 .. 255
2	R	R 0 .. 255
3	G	G 0 .. 255
4	B	B 0 .. 255
5	W	W 0 .. 255
6	Strobo Rate (*)	STROBO 0 .. 255

(*) Strobo Rate execute the functions of the strobe address of the control unit connected to the CBU-MASTER-DMX-IP. For example, if you connect the CBU-MASTER-DMX-IP to the DLD1248-4CV-DMX control unit, which is also set with the MRGB+ or MRGBW+ map, the Strobo Rate address has the following characteristics:

6	Strobo Rate	fix	blackout	1fps	2fps	3fps	4fps	5fps	6fps	7fps	8fps	9fps	10fps	12fps	14fps	16fps	fix
		0..15	16..31	32..47	48..63	64..79	80..95	96..111	112..127	128..143	144..159	160..175	176..191	192..207	208..223	224..239	240..254

For other devices, if present the Strobo address, check the behavior of the Strobo address.

Load Type: MOVING HEAD DMX ¹⁾

Ch.	Function	Map: Moving MRGBW	
1	PAN	Moving Yoke / Moving Mirror Pan Coarse 0 .. 255	
2	TILT	Moving Yoke / Moving Mirror Tilt Coarse 0 .. 255	
3	Master Dimmer / Strobo	Master Dimmer (Brightness Value) 0 .. 127	Strobo 128 .. 255
4	R	R 0 .. 255	
5	G	G 0 .. 255	
6	B	B 0 .. 255	
7	W	W 0 .. 255	
8	Extra	0 .. 255	

¹⁾ *This profile is only for CBU-MASTER-DMX-IP*
 Custom maps can be requested on request.

➤ **BLUETOOTH RANGE**

The range depends a lot on the surroundings and materials or building obstacles, see the technical notes on page 3.