

DMXcas

USA & Canada

DMX Engineering LLC
<http://dmx.engineering>



DMX-to-Casambi 4-Channel DMX Dimmer

Product Description

DMXcas is a Bluetooth controllable, Casambi enabled, four channel DMX-512 dimmer that allows connection of a standard DMX-512 master controller to a Casambi network. While the casDMX is intended to connect to fixtures, the DMXcas is the "other side", allowing for standard DMX controllers to be utilized with Casambi networks. The DMXcas is connected between a 12-24 VDC Class 2 power supply, and a DMX master.

DMXcas can implement up to four Casambi pushbutton devices, making it an ideal partner for RGBW and tunable white (TW) applications. Multiple DMXcas devices can be used in the same network to control different fixtures, channels or zones since the 4 channels of control can be mapped using the Casambi mobile application.

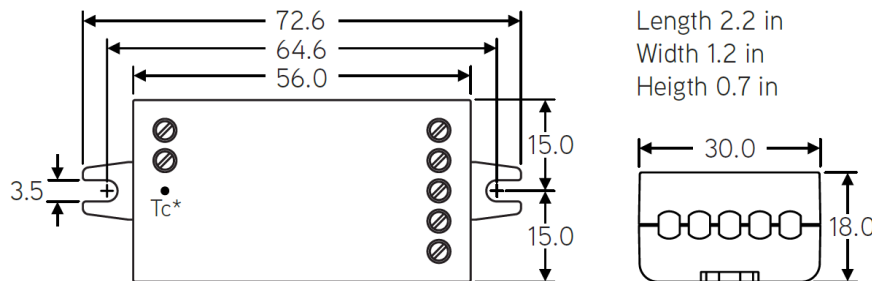
DMX can be configured with the Casambi app which can be downloaded free of charge from Apple App Store and Google Play Store. The unit acts like a Casambi button, and can be mapped to a fixture or channel.

Different Casambi enabled products can be used from a simple one luminaire direct control to a complete and full featured light control system where up to 127 units form automatically an intelligent mesh network.

Typical Connection Diagram



Mechanical Data



Dimensions are in mm. * Tc point is on bottom side

Dimensions: 2.2 x 1.2 x 0.7 inch
72.6 x 30.0 x 18.0 mm
Weight: 0.8 oz (23 g)

Certifications

FCC ID: 2ALA3-CBM002A
IC: 22496-CBM002A



Conforms to UL STD 916
Certified to CSA STD C22.2#205

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Compatible mobile devices:



iPhone 4S or later
iPad 3 or later
iPod Touch 5th gen or later



Android 4.4 or later devices
produced after 2013 with full
BT 4.0 support

Technical Data

Input

Voltage range: 12-24 VDC, Class 2
No-load input current: 30 mA

DMX-512 Input

3-wire non-isolated DMX-512

Radio transceiver

Operating frequencies: 2.401-2.483 Ghz
Maximum output power: typ. +0 dBm, +/-3dBm

Operating conditions

Ambient temperature, ta: -13...+113°F (-25...+45°C)
Max. case temperature, tc: +167°F (+75°C)
Storage temperature: -13...+167°F (-25...+75°C)
Max. relative humidity: 0...80%, non-cond.

Connectors

Wire range, solid & stranded: 0.5 - 1.5 mm²
14 - 22 AWG
Wire strip length: .25" (6 - 7 mm)
Tightening force: 0.4 Nm / 2.6 Lb-in

SUPPLIED BY:

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Installation

Connect a Class 2 power supply with 12-24 VDC output voltage to the input connector of DMXcas. Make sure not to use a constant current LED driver and make sure that the cable polarity is correct. The product has one DMX universe, with a DMX+ and DMX– connection, plus a ground. Connect the DMX load wires accordingly to a DMX master of your choice to give you DMX control of your Casambi lighting network.

DMXcas can be mapped just like pushbuttons are mapped in the Casambi application. Once you add the DMXcas to your Casambi network, navigate to the “More” button at the bottom of the app. Then press “Switches”, where the DMXcas will be seen. Press on the DMXcas that you want to configure, and select each of the four pushbutton items in turn. Then configure each of the four pushbuttons to control a Casambi element by pressing on “Not in Use” .and then select what the pushbutton is to control, most likely “Controls and Element”, which then you can select a certain element to control. Be sure to press “Done” at the top right to save the configuration.

DMXcas should not be placed in a metal enclosure, such as metal junction boxes. Metal will attenuate radio signals which are crucial to the operation of the product. If the product will have to be installed into a junction box, make sure to use a plastic junction box.

DMXcas is an ETL Listed Open-Type device which means that it will have to be used together with a Class 2 power supply with maximum output power of 100 VA. The product can be installed outside of junction box. Make sure to comply with National Electric Code in installation and when selecting installation wires.

Range

The range between two DMXcas’s or between a DMXcas and a smart phone can vary depending on obstacles and surrounding material. In open air the range between two DMXcas can be in excess of 200 ft, but if the unit is encapsulated into a metal structure, the range can be only a few feet. Therefore, thorough testing is highly suggested.

Casambi uses mesh network technology so each DMXcas acts also as a repeater. When testing the network, it is important to test that each unit can be controlled from any point of the network covered area.

Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning

Changes or modifications not expressly approved by DMX Engineering and Design LLC could void the user’s authority to operate the equipment.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement for Canada

This device complies with Industry Canada’s licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment is exempt from the routine RF exposure evaluation requirements of RSS-102. This equipment should be installed and operated with a minimum distance of 20 cm between the antenna and the user or bystanders.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:

- (1) l’appareil ne doit pas produire de brouillage;
- (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

