

SceneDMXcas

USA & Canada

Casambi Scene Controller/Selector

DMX Engineering LLC

<http://dmx.engineering>



DMX Casambi Scene Selector



Product Description

SceneDMXcas is a Casambi “Gateway” device designed to utilize a connection to a standard DMX digital master controller to provide remote selection of pre-defined Casambi Scenes and Scene Intensity. SceneDMXcas is connected between a 12-24 VDC Class 2 power supply, and a DMX master universe.

SceneDMXcas decodes two DMX channels, and provides Scene selections by mapping the first DMX channel to up to 20 pre-defined Casambi Scenes. The second DMX channel provides 0-100% intensity selection for the selected Casambi Scene. The DMX Start Address for each SceneDMXcas is also user selectable.

SceneDMXcas can be configured with the Casambi app which can be downloaded free of charge from Apple App Store and Google Play Store.

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.

Compatible devices:

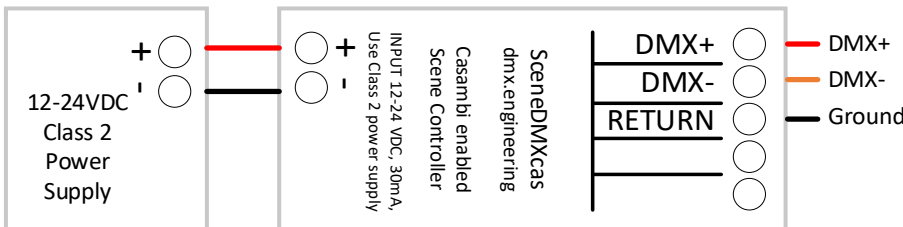


iPhone 4S or later
iPad 3 or later
iPod Touch 5th gen or later

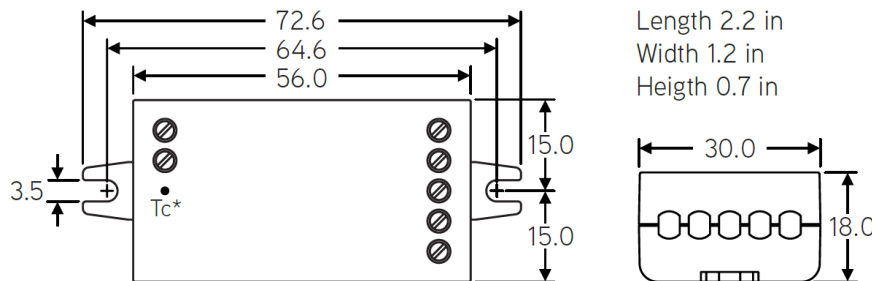


Android 4.4 or later devices
produced after 2013 with full
BT 4.0 support

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

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

Channel 1—Scene selection

Channel 2—Intensity level

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

DMX Engineering LLC

9221 E. Baseline Road, Suite 109-492

Mesa, AZ 85209

Installation

Connect a Class 2 power supply with 12-24 VDC output voltage to the input connector of Scene10cas. Make sure not to use a constant current LED driver and make sure that the cable polarity is correct. The product has two DMX input connections (+ and -), plus one common (RETURN) ground. Connect the DMX in wires to a DMX master of your choice to give you DMX control of your Casambi Scene lighting network. Add Scenes to the Casambi network, the SceneDMXcas will allow up to 20 Scenes to be selected.

Using the Casambi app, go to Gateways, and press on the SceneDMXcas device, and add it to your Casambi network. Now press on the SceneDMXcas icon, and scroll to the bottom of that screen. Note at the bottom of this screen there are 21 user programmable parameters—DMX Start Address, and 20 Scene selectors. First select your DMX Start Address, then up to 20 Scenes from your pre-defined Scenes in your Casambi network. Now simply use your DMX master to select the Scene and Intensity, with the first DMX channel selecting the Scene and the second channel defining the Intensity.

SceneDMXcas 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. SceneDMXcas 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 SceneDMXcas's or between a SceneDMXcas and a smart phone can vary depending on obstacles and surrounding material. In open air the range between two SceneDMXcas 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 SceneDMXcas 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.

