

EG-2 Ethernet Gateway



Contents

Introduction	3
Basic Schematic	3
Installation	3
Product Overview	4
Connecting the Supply	5
iCAN Network Connections	5
Set Up Instructions	6
Configuration	6
Setting the IP address	6-7

Introduction

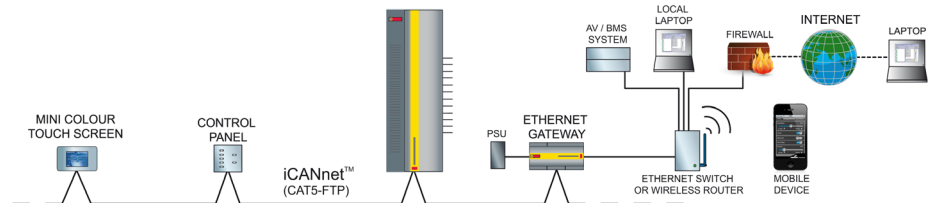
The Ethernet Gateway 2 provides connection between an iLight CAN network and an Ethernet LAN. This allows a user to control and configure the iLight system using iCANsoft on a LAN network PC rather than by connecting directly into the network.

The EG2 also facilitates connection to the internet when installed behind a firewall. This then enables remote connection for controlling, programming and obtaining diagnostics of the lighting control system.

The EG2 also functions as a smartphone device host allowing control and programming of the iLight network. Apps are available free of charge for Android and Apple devices.

Facilities are provided to allow a BMS or smart home system to interact with the iLight network. This is achieved by simple character strings communicated via a UDP or TCP connection.

Basic Schematic



Installation

Location

The EG2 should be installed in a dry ventilated location, where ambient conditions are maintained within the requirements of the unit. The unit has ventilation slots on its sides to allow convection cooling and in no circumstances should these be blocked.

Mounting

Always mount in well ventilated location Allow 50mm (2") above and below the unit if trunking with a depth greater than 50mm (2") is used.

Ambient atmosphere requirements

Temperature: +2°C to +40°C (+36°F to +104°F)

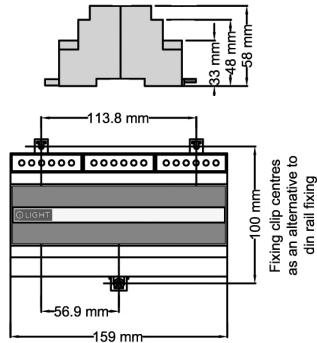
Humidity: 5% to 95% non-condensing

IP Rating: IP20

Weight:

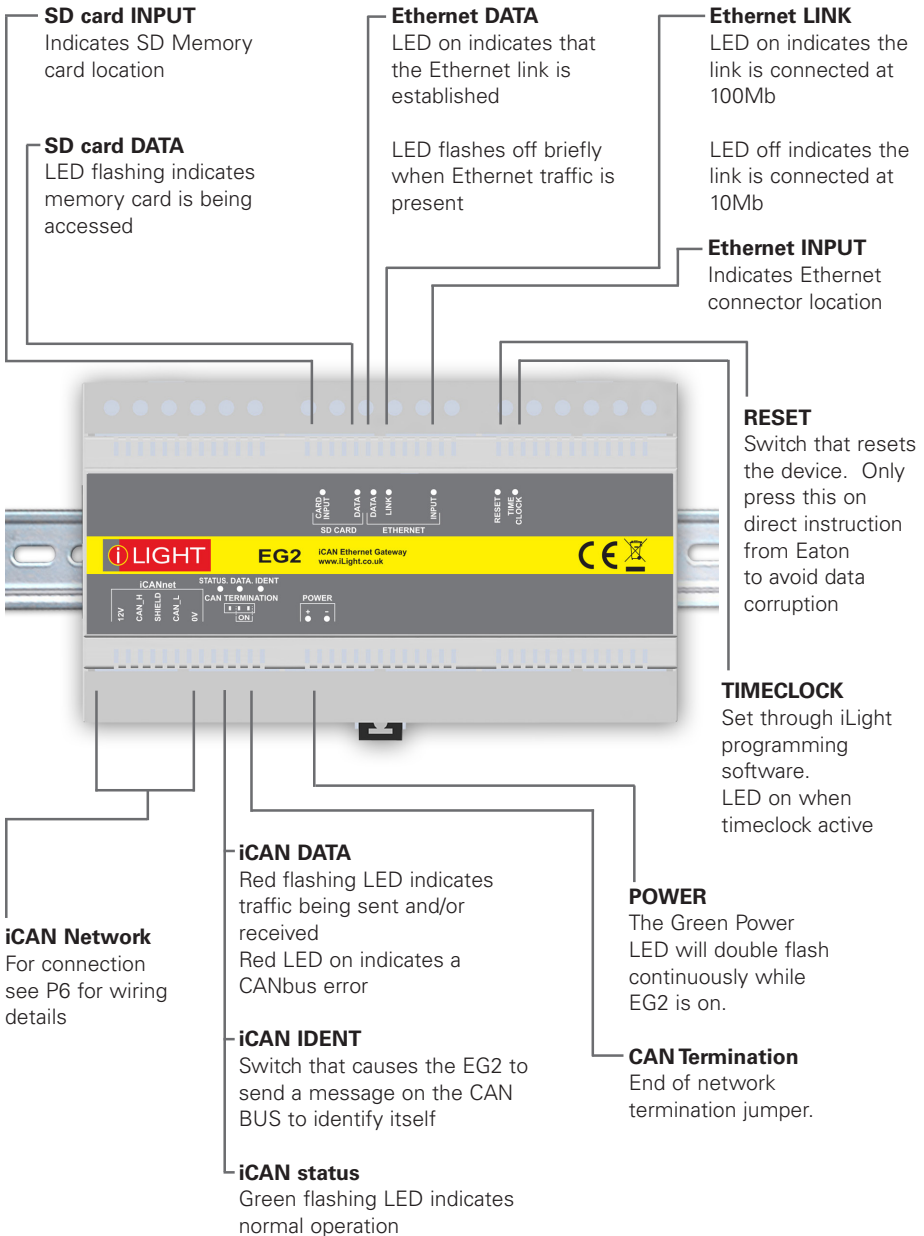
0.25Kg (0.55 lbs)

Dimensions



Product Overview

The label on the enclosure identifies the position of the status LEDs, switches & connectors.

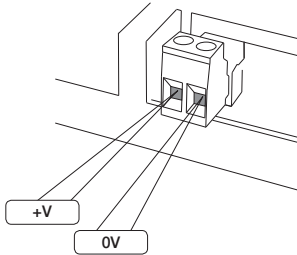


Connecting the Supply

Power is to be supplied to the EG2 via an external regulated power supply in the range of 9-36VDC 0.3A

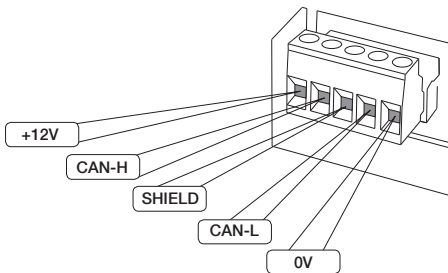
Eaton are able to provide a recommended power supply if required.
 Catalogue Number: PSU-15-DIN (15VDC 0.67A)

A removable 2 way connector screw terminal plug is provided for the connection of the power supply. Terminal sizes: 2 x 1.5mm²



iCAN Network Connections

A removable 5 way connector screw terminal plug is provided for the connection of iCAN network cables. Terminal sizes: 5 x 1.5mm²

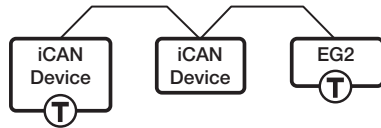


Function	Cable Colours
+12Vdc	Red
CAN H	Blue
Shield	Silver
CAN L	White
0V	Black

IMPORTANT NOTE: Connecting a mains potential cable to the iCAN Network terminals is likely to damage the unit and others connected, and invalidate warranty.

iCAN devices are 'daisy-chained' on the network. Spurs from the Network are not permitted and will result in communications problems. Devices on an iCAN network can be wired in any order. Termination is required at both ends of the network.

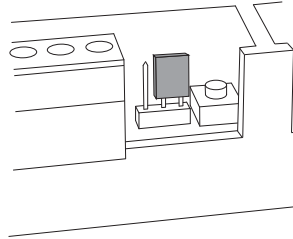
Network Termination



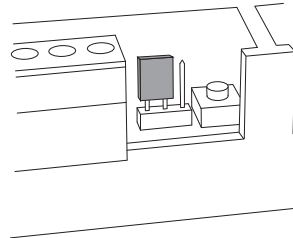
T - Indicates where a termination is required.

The EG-2 has built-in network termination. If the EG-2 is at the end of the network, ensure the CANTERMINATION jumper is fitted in the Termination On position.

Termination On



Termination Off



Set Up Instructions

iCAN Network

Connect the EG2 to the iCAN network using the network connector. If the EG2 is at the end of a network set the Term link to ON otherwise set to the OFF position

Ethernet

Ethernet connection by RJ45 (568B). This should be connected to either an Ethernet Switch or to a Wireless Router.

Configuration

iCAN Device Number

The EG2 is supplied with a iCAN Network Device number with Segment number 255 and a node number in the range 1-255. Both Segment and Node number can be changed using iLight programming software.

Factory Default IP settings

IP Address: 192.168.0.100
Subnet mask: 255.255.255.0
Gateway: 192.168.0.254
DHCP: Off

Note: The EG2 default settings are to use a fixed IP address of 192.168.0.100. Any device used to communicate with the EG2 will need to be located within the 192.168.0.x subnet.

Power up

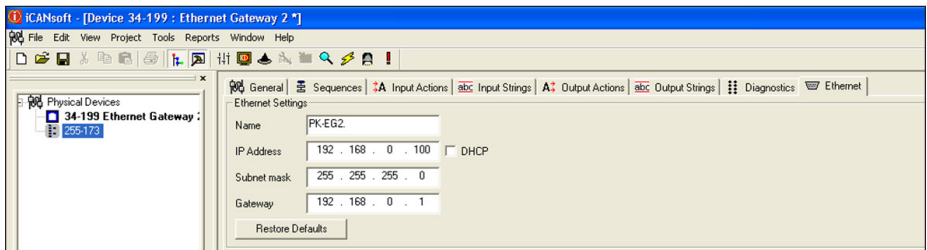
The EG2 takes approximately 60 seconds to be ready for use once power is applied. Wait for the Green CAN LED to flash slowly. The Green Power LED will double flash continuously while EG2 is on.

Setting the IP address

The factory set IP Address can be changed using the iCAN network connection or using a computer connected directly to the Ethernet port.

Changing with iCAN Network

Connect to the iCAN network a computer running iLight programming software using an iLight PC Node. Search the network and load the EG2 into the software.



Go the Ethernet tab. Either the Default settings can be applied or other settings can be applied. Select OK or Apply to download the changes to the EG2.

Change IP address via the Ethernet port

EG2 is supplied from the factory without DHCP enabled; therefore, it is necessary that the Ethernet port of the PC is set to the correct IP Address and Subnet Mask. For details of setting the IP address of your computer consult information on line. This will depend on your Operating System.

Example

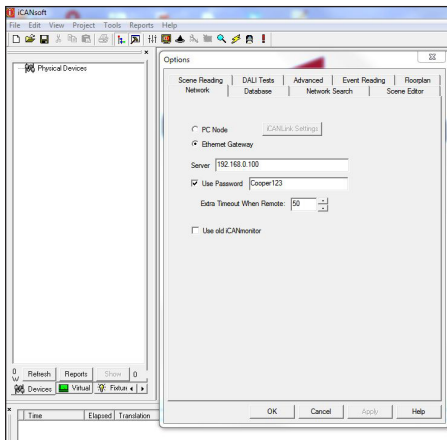
IP Address: 192.168.0.99
Subnet mask: 255.255.255.0
Gateway: 192.168.0.254

To connect the EG2 directly to the PC, it may be necessary to use a Crossover Cable, however, most modern computers are able to connect directly to another Ethernet device without a crossover cable.

The Ethernet port of your computer will need to be configured to a compatible IP address. Open iLight programming software. It will be required to set the software to communicate using the Ethernet Port.

This is done by selecting from the Tool bar Tools>Options>Network.

Select Ethernet Gateway and change the IP address to 192.168.0.100. Also ensure the 'Use



Select OK to confirm and set the address.

The software can now be used to configure any items connected on the network.

Set the IP address of the EG2 as described in section opposite. The new IP address will become valid when the EG2 is reset or power to the device is removed and re-instated.

Reset to factory defaults

Factory defaults may be reset by the following procedure:

Remove power from the board.

Press the CAN ID button and reapply power. Keep the button pressed until the CAN LED flashes then stays on. At this point the Ethernet settings will have been restored to defaults.

After setting to factory defaults, the IP address of the device will revert to 192.168.0.100

iLight Technical Support

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For detailed warranty information, visit our website at www.coopercontrol.com

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