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Client: Sutron Corp.
Model #: 6461-1311-1
Standards: FCC 15.247/IC RSS-210
ID's: HDB-6461-1311-1/1088A-646113111
Report #: 2014075

Appendix M: Manual

Please refer to the following pages.

USER MANUAL

Model# 6461-1311-1

DESCRIPTION

6461-1311-1 has a microcontroller, an RF transceiver, an RF amplifier and a flash memory chip. The differential output of the transceiver is fed to a balun and then to an RF amplifier, Low pass filter and finally to a coaxial connector.

The microcontroller runs a network stack that supports various commands for setting the RF channel and transmits power. The network stack periodically turns on the receiver to sniff for incoming packets.

REGULATORY INFORMATION

The 6461-1311-1 module has been designed to operate with the antenna listed below and having a maximum gain of 3.2 dBi. The required antenna impedance is 50 ohms.

Part Number	Mfg	Type	Gain(dBi)
ANT-2.4-CW-HW	Antenna factor	Omni	3.2

The OEM is free to choose another vendor's antenna of like type and equal or lesser gain as an antenna appearing in the table and still maintain compliance. Reference FCC Part 15.204(c)(4) for further information on this topic.

The recommended separation distance for this equipment is 20 cm.

To reduce potential radio interference to other users, the antenna type and gain should be chosen so that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication.

Changes or modifications not expressly approved by Sutron Corporation could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

OEM Responsibilities

WARNING: The OEM must ensure that FCC and IC labeling requirements are met. This includes a clearly visible label on the outside of the OEM enclosure specifying the appropriate FCC/IC identifiers for this product as well as the FCC notice below.

Note: Contains FCC ID: **HDB-6461-1311-1**
IC: **1088A-646113111**

The enclosed 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.

Label and text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight pt