

**OEM/Integrators Installation Manual**

**EZ-HS301**

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**Microwave Module**

FCC ID: CCEEZ-HS301

## Introduction

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### 1. Scope

**This module is intended to be installed on COMMAX Co., Ltd.'s line of product.**

### 2. General description

**Rating power of this module is DC 5V. It contains the MCU CONTROLLER and Outputs 5V only when it detects object. The idle output is 0V.**

### 3. Dimension

**36mm x 20mm x 1.0T**

### 4. Characteristic

**No such environmental conditions such as dust, temperature, light and noise will affect this module's performance.**

**This module's micro wave is capable of penetrating non metallic materials like plastic, glass, fabric and wooden board and detect the motion of the object at the other side.**

## Specification

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### 1. Environment Spec.

**Operating temperature: -20~60°C**

**Operating humidity: 0~80%RH**

### 2. Electrical Spec.

**1)Rating power: DC 5V**

**2)Range of power : DC 4.8 – 5.2 Vdc**

**3)Output power : DC 0 - 5V**

### 3. Radar spec. ( could be differ by regional conditions )

**1) Distnace : approx. 1.5 ~ 2M**

**2) Angle : VERTICAL : approx. 50°, HORIZONTAL : approx. 140°**

## Federal Communication Commission 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.

# Federal Communication Commission Statement

## **OEM Responsibilities to comply with FCC**

- The module is limited to OEM installation only.
- The OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install module.
- The module is limited to installation in mobile or fixed applications.
- The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.
- The OEM integrator will be responsible to satisfy SAR/ RF Exposure requirements, when the module integrated into the host device.
- The OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

Also, the OEM integrator is responsible to provide to the host manufacturer for compliance with the Part 15B requirements.

- The module is a limited single-modular transmitter that complies with the § 15.212(a) modular rules which requires the host operating condition as ;

The host product should supply the regulated power of 5V DC to module.

The host product should comply with part 15 requirements under conditions of excessive data rates or over-modulation.

## **Host User Manual**

The host manual shall include the following regulatory statement:

Part 15.19: 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.

Part 15.21: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.

## **Host Product labeling**

The module is labeled with its own FCC. If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area with the following: "Contains FCC ID: CCEEZ-HS301"