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Date: 04/05/2021
Federal Communications Commission
Authorization and Evaluation Division
1435 Oakland Mills Road
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Cover Letter

FCC ID: 2AVCWMWC434M

To Whom It May Concern:

1. Typical Use Case Of MWC-434m

Miliwave's MWC-434x module operates in the 60GHz unlicensed frequency band(57.24GHz~65.88GHz), IEEE802.11ad compliant, and comply with FCC Rule Part 15.255. it is designed for only using for Smart Factory IoT Applications(ex. AMR(Autonomous Moving Robot, Machine Vision Camera) with Point to Multi-Pont (PTMP) or Point to Point (PTP) bridge wireless data communication, primarily for Line-of Sight (LOS) operation. The MWC-434m module connects to a Linux based Host Communication Processor board via an available USB 3.0 port. Some example use cases are as below

a) In semiconductor smart factory which requireres to transfer large amout of video data from machine vision camera to sever PC to check wafer defect in real time, MWC-434x module can be used for WiGig Sation and and AP to make wireless link between machine vision camera and server PC.
b) In the smart factory where AMR(Automomous Moving Robot) is used, the real time control from server PC to AMR, and report from AMR to server PC are necessary without any delay. MWC-434x module can be used for WiGig Sation and and AP to make wireless link between AMR and server PC with less then 1ms delay.

All required drivers and firmware is pre-installed on the MWC-434m module as a self-contained device. However, the MWC-434x module would not be operational unless it is connected to the Linux-based Host Communication Processor board for PTP or PTMP bridge wireless communication.

2. Strictickly Limitied Uase Case of MWC-434m

15.255(a) Operation under the provisions of this section is not permitted for the following products:
(1) Equipment used on satellites.
(2) Field disturbance sensors, including vehicle radar systems, unless the field disturbance sensors are employed for fixed operation, or used as short-range devices for interactive motion sensing. For the purposes of this section, the reference to fixed operation includes field disturbance sensors installed in fixed equipment, even if the sensor itself moves within the equipment.

Sincerely,

Sean Rha

Sean Rha
VP of Business Development