

I DO IT Co., Ltd.

#637, Smart-Hub Industry-University Convergence Center, 237
Sangidaehak-ro, Siheung-si, Gyeonggi-do, Korea(429-793)
•. TEL:+82-31-8041-1531 •. Fax: +82-31-8041-1550

February 13, 2015

Subject: Request for unlicensed Limited Modular Transmitter Approval.

Dear Application Examiner:

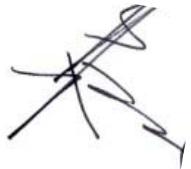
I DO IT Co., Ltd. hereby requests FCC Equipment Authorization and Evaluation branch to approve I DO IT Co. Ltd. Model WLE200N5-23ESD, PCIe MINI CARD

1. “The modular transmitter must have its own RF shielding.” The transmitter radio section of the module is enclosed within a RF shield. The RF shield is solder mounted to the exposed grounding of the circuit board. The point of contact between the shield and the board has multiple ground contacts. The internal photos exhibit has pictures of the wireless master device with and without the shield. The shield suppresses spurious radiations as per FCC requirements.
2. “The modular transmitter must have buffered modulation/data inputs.” The WLE200N5-23ESD has buffered data inputs that pass through an embedded processor. RF modulation controls are generated on board. Firmware will also not allow the end user to access RF modulation / data rate control settings of the RF circuitry. No change in input data or control signal can affect the RF data rate or type. This method insures compliance with Part 15 requirements under conditions of excessive data rates or over modulation.
3. “The modular transmitter must have its own power supply regulation.” The WLE200N5-23ESD, PCIe MINI CARD power from an external +3.3 VDC and external +1.2 VDC supply on the customer’s host controller board. The +3.3 VDC supply sources some circuitry directly and is also regulated to +2.8 VDC. The +1.2 VDC supply sources circuitry directly. In order to comply with the requirement that all voltages be regulated, we have included an over voltage detection circuit which ceases RF transmission when the input voltages exceed their +10% threshold, either independently or together.
4. “The modular transmitter antenna must comply with the antenna and transmission system requirements of section 15.203, and 15.204(c).” The modular device complies with all FCC antenna requirements. The WLE200N5-23ESD, PCIe MINI CARD is designed in such a way that the antenna is integrated with the modular device. As per the FCC 15.203

requirement, this can be considered as permanently attached and doesn't give the user any option to replace it. A list of usable antennas is not provided since the user manual clearly instructs the user that the modular device is compatible with only the integrated antenna. The antenna report also provides a description as to how the modular device complies with the de facto EIRP limit.

5. "The modular transmitter must be tested in a stand-alone configuration." As described in the technical report exhibit and the test set up photos of the test report included in the filing for FCC equipment authorization, the WLE200N5-23ESD, PCIe MINI CARD module was tested as a standalone device. The device is designed with an industry standard multi pin connector and was tested in typical configuration which is greater than 10 cm in length from the host device.
6. "The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying the FCC identification number." A FCC ID and model number is labeled on every modular device. FCC ID label and location exhibit has a photograph which shows the exact location of the label. Since the FCC ID number will not be visible when the module is installed inside the host audio source, another label with the same FCC ID will be applied to the exterior of the host/master enclosure.
7. "The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements." The EUT complies with all specific rules such as modulation scheme, modulation type, bandwidth, antenna requirements, power supply regulation, and suppression of spurious emissions and so on. A detailed user manual is provided with every EUT which instructs the user to maintain compliance as per the requirements of the Commission. The manual also cautions the user not to make any changes or modifications not approved by the party responsible for compliance. Please see the operating description exhibit for further details to understand how the EUT complies with specific rules and operating requirements as per FCC.
8. "The modular transmitter must comply with any applicable RF exposure requirements in its final configuration." The EUT is compliant with all applicable RF exposure requirements and EUT is operated in a manner that ensures the public is not exposed to radio frequency in excess of Federal Communication Commission's guidelines. Please see the RF exposure exhibit.

Best Regards

A handwritten signature in black ink, appearing to read "GiSeob Lim". The signature is fluid and cursive, with a prominent 'G' and 'L' at the beginning.

GiSeob Lim /
Production team Leader