

FCC Modular Approval Letter

DW-6-1-2014
DW-8-29-2014

The follow will describe how the IM711-200 unit conforms to the 8 requirements set forth in Part 15.212 by:

1. Requirement:

The radio element of the modular transmitter must have there own shielding.

Compliance is achieved by:

The transmitter circuitry of this module is mounted on an RFIC (U4) and is completely shielded, by the metallic ink coating that is on all sides and a solid ground plane directly under the BGA.

2. Requirement:

The modular transmitter must have buffered modulation/data inputs to ensure that the module will comply with part 15 requirements under excessive data rates or over modulation.

Compliance is achieved by:

The device complies with this by all the data being sent to the transmit module is sourced from the digital I/O of the controlling microprocessor. The level of the signal is fixed.

3. Requirement:

The modular transmitter must have its own power supply regulation.

Compliance is achieved by:

The device complies with this by being designed specifically for the Consumer Electronics Alliance 2045 interface specification, Section 15, Appendix A: Low Voltage DC form Factor. This specification sets forth the performance limits for the power supply to the device. Internally to the device there are additional filtering circuits to reduce the conducted RF signal on the power supply lines.

4. Requirement:

The modular transmitter must comply with the antenna and transmission system requirements of Part 15.203, 15.205(b), & 15.204(c).

Compliance is achieved by:

The device has a permanently attached on board antenna that is totally enclosed in the mechanical package. The antenna is not accessible from outside the housing.

5. Requirement:

The modular transmitter must be testable in a stand alone manner.

Compliance is achieved by:

This device conforms to this parameter by the operation of the device. Only a DC voltage and serial interface is required to operate the module for testing or operation purposes.

6. Requirement:

The modular transmitter must be equipped with either a permanently affixed label or must be capable of displaying its FCC Identification number.

Compliance is achieved by:

Comverge drawing 475443 has the FCC ID number clearly displayed. This label is permanently attached to the module, as described by Comverge drawing 475290.

7. Requirement:

The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.

Compliance is achieved by:

The module complies with this by the information in the User's Manual that accompanies the unit. The User's Manual instructs the user how to set the device up and operate it.

8. Requirement:

The modular transmitter must comply with any applicable exposure limits in its final configuration.

Compliance is achieved by:

The module operates in a M2M configuration, which does not have any SAR requirements other than the standard intentional and unintentional radiation limits.