

STG Aerospace Inc.

RS001 Certification

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1 Introduction

The RS001 device is a transceiver module used in the control of devices such as low-power low-voltage light panels. RS001 is known as the “Main Board” and is present in all control units (as in switching) and controlled units (as in lighting). The transceiver module is for battery-operated use.

The transceiver module has been designed to meet the general emissions limits in paragraph 209 of the Part 15 47CFR FCC rules. The frequency used is 315MHz and complies with paragraph 205 of Part 15.

Note that the RS001 module is marked RS001-A1. The A1 refers to the issue level of the board assembly and represents the issue level of the RS001 module being presented for certification.

2 Unlicensed Modular Transmitter Approval

According to DA 00-1047 the requirements for modular transmitter approval are met by the following compliance statements:

1. Own RF Shielding. The transmitter has its own metal shielding, in addition to a ground plane on the bottom of the circuit board.
2. Buffered modulation/data inputs. No data inputs are provided on the board that connect to the transmitter. The processor drives the transmitter directly at a fixed data rate.
3. Supply regulation. The transmitter has power regulation provided on-board by U7.
4. Transmit antenna. The transmit antenna is permanently attached and is part of the circuit board.
5. Stand-alone test. The emissions tests were carried out in a stand-alone configuration with battery power. The unit is designed for battery operation and will not be used from AC supplies or from units connected to AC supplies.
6. Labeling. The unit will be labeled with its own FCC ID number. Instructions for labeling the outside of the device into which the RS001 is installed are contained in the installation guide.
7. Operating requirements. The RS001 module is designed to operate under the General Limits specified in Section 15.209 and as such there are no specific operational requirements.

8. Exposure requirements. The RS001 module is designed to operate under the General Limits specified in Section 15.209 and as such there are no specific exposure requirements.

3 Label

The RS001 module will be labelled (printed directly onto the board in a prominent place) with the FCC ID number Q52-13EAQ52. The installation instructions contain the required statement.