

## Class II Permissive Change Letter

Date:2014-09-09

Lightspeed is submitting an application for Class II Permissive Change to our device,  
FCC ID: ORV-FCGS

Device Name: Student Group Speaker

Model No.: FCGS

### Description of Changes:

1. In order to enhance the quality during production and improve the manufacturing process, we re-layout the FCGS PCB.

**a : Antenna Change** : Yes (Change to Monopole/-2dBi)

**b: Printed Circuit Board** : Relayout

PCB Relayout : New FCGS PCB combine PCB389-0031-02 (which was original Speaker main PCB) and PCB671-0032-02 (which was original Speaker Oscillator PCB) to PCB345.

**c: Hardware changes** : Yes

The New FCGS uses a slightly modified version of the current FCGS plastic enclosure. The modifications include new openings for the CALL button, the AUX Output port, and the Test/Programming port

AUX OUT: One 3.5 mm stereo mini-phone jacks, nominal  $316\text{mV}_{\text{RMS}}$  into a 1k ohm load. Output impedance less than 100 ohms.

Teacher Call Button: Push Button to notify the teacher that the student group requires attention. Notification is in the form of a tone in the teacher's ear piece and flashing the corresponding pod LED on the Remote Control Unit. Pressing the Call Button queues a request to notify the teacher. A Call-Complete indicator will light when the notification reaches the teacher.

## Test and Programming

Port: 34-pin keyed header which is externally accessible and is covered to discourage end users from connecting anything. The nomenclature reads "Testing Purposes Only"

**d: Enclosure changes** : No

**e: Software changes** : Yes (Ver:3.1.00)

New Software : New FCGS software do not make any new changes on protocol and RF control driver, the software implement minor UI (user interface) changes.

**New Interface** : Test and ProgrammingPort:

34-pin keyed header which is externally accessible and is covered to discourage end users from connecting anything. The nomenclature reads "Testing Purposes Only".

This Interface is used for the following purposes:

1. Programming the software and EEPROM of the DECT .
2. To measure the output of the speaker's power amplify

**f: Miscellaneous changes** : No

2. **a** : New FCGS PCB combine PCB389-0031-02 (which was original Speaker main PCB) and PCB671-0032-02 (which was original Speaker Oscillator PCB) to PCB345.

**b** : New FCGS PCB do not make any changes on the Product(FCGS) Function, Radio parameter, the relative position of components nor appearance.

**C** : New FCGS PCB do not implement any new key chip components either.

**d**: New Software : New FCGS software do not make any new changes on protocol and RF control driver, the software implement minor UI (user interface) changes.

-Test report according to Part15D of original Grant remains valid and applicable.

-New exhibit (Part15D test report) to demonstrate compliance with Part15D requirement is submitted with this application.

-The product remains compliance with all the applicable rules and requirements. Changes in the configuration indicated in this application and final compliance of the

FCGS fall under the responsibility of the Lightspeed.

Please contact me if you have any questions or need further information regarding this application. Sincerely Yours

By:

By:

**Michael A. Frost**



(Signature)

(Printed)

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