



March 15, 2022

Federal Communication Commission
Equipment Approval Services, P.O. Box 358315
Pittsburgh, PA 15251-5315
Attention: Authorization & Evaluation Division

Application for Class Two Permissive Change Certification of Gentex Corporation Transmitter under 47 CFR 15.231 and 47 CFR 15.247.

Model: UAHL5E FCC ID: NZLU AHL5E

To whom it may concern,

Gentex Corporation requests a Class 2 Permissive change due to part shortage for the UAHL5E product, which is a programmable frequency garage door opener and digital device controller to be installed in the automobile rearview mirror. The Gentex model UAHL5E is part of the HomeLink® V series. HomeLink® V devices are capable of learning garage door opener frequencies and codes from the user's original transmitter. The Class 2 change consists of the following:

- TVS 24V diode, D3, updated with slightly larger case and located in the power supply section
- Switch, U5, updated along with discrete components and located in the power supply section.
- Backlight switch, U11, along with supporting components on top and bottom and in the LED section
- Crystal, X1001, updated with larger case and located in the transmitter section. The new component covers the same specifications as the previous component.
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There were limited PCB changes made as necessary to accommodate the new components and no other components have been changed. These changes did not require a large number of relocated components. The power setting was lowered for only the 902-928MHz band to align with the original submission data. The device is capable of learning in the range between 286MHz and 440MHz excluding forbidden frequency regions. In addition, the device operates at the 902-928Mhz.

Please issue the grant under the following conditions:

- 1) The requirements of § 2.1043 are fulfilled, i.e., the device's block functions for the fundamental frequency, primary modulator circuit, maximum power, or field strength ratings shall remain unchanged.
- 2) Transmitter PCB layout and parts changes are only permitted if there is no change in identifying a device's form, functional specification, as initially granted or previously approved under a Class II permissive change.
- 3) PCB changes are limited to non-substantive modifications layout changes to the same size physical circuit board previously granted.



- 4) C2PCPX is not permitted to add, remove, augment, or change capabilities, such as transmitters, increased bandwidth, additional rule parts, bands, etc.
- 5) In the PAG submission for item C2PCPX, the applicant shall provide complete information on testing demonstrating that the proposed changes for fundamental emissions are unchanged within the normal, acceptable tolerances and out-of-band; emissions do not exceed the appropriate limits. The PAG submission shall include all applicable test reports and internal photos.
- 6) The modified device shall not be marketed under the existing grant of certification before confirmation that the C2PCPX PAG is approved and granted.
- 7) Software Defined Radio (SDR) grants that use the C2PCPX procedure are not permitted to make subsequent Class III permissive changes.
- 8) The C2PCPX PAG procedure has no impact on the provisions of V) of this publication for non-SDR software-only changes; thus, adding an equipment class when related to rule changes is still permitted.
- 9) Class I permissive changes are not permitted³ under this C2PCPX procedure.

The Federal Communications Commission will be notified, in writing of any changes in the software/programming of this device that could affect its RF characteristics. Please do not hesitate to contact me with any questions you may have regarding this report. As always, we look forward to your timely response.

Sincerely,

A handwritten signature in black ink that reads "Brian R. Miller".

Brian Miller

Lab Regulatory Group Leader II
Gentex Corporation