

Class II Permissive Change Request Letter

Date: December 17, 2021

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Original Grant Date: Dec. 3, 21
FCC ID: Q37TKV5

To Whom It May Concern:

We, the undersigned, hereby attest to the fact that we will apply the class II change.
The major change filed under this application is:

Description:

1. Changing of crystal that generates the RF frequencies for the BT module, U13 (EFR32BG21A010F512IM32-B).
 - (1) Original: 38.4MHz Crystal 1.2 × 1.0 mm size (Manufacturer part number: Murata XRCED38M400FXQ50R0).
 - (2) Current: same frequency (38.4 MHz), bigger 2.0 × 1.6mm size (TaiSaw, Geyer, Murata).
2. The PCB pads will be modified to accommodate the bigger 2.0 x 1.6 mm crystals.
3. A metal shield can will be added to the top layer and to the bottom layer of the PCB.
4. RS485 transceiver (U26) is depopulated.
5. Package of power controller IC (U34) will be changed from 10-pin DFN to 10-pin MSOP.

Except for the above differences, the RF design and circuit are identical with the original Grant.

Should you have any enquires or comments, please have my best attention.

Sincerely,



Signature

Contact Name / Job Title: Ashu Kulkarni / Leader, Telematics Engineering
Email: Ashu.Kulkarni@tranetechnologies.com