

Federal Communications Commission
7435 Oakland Mills Road
Columbia MD 21046

Date: May 7, 2025

Subject: Requesting Class II permissive change for **FCC ID: X5D-ITSCBTWIW5V2**

To Whom It May Concern:

The purpose of this letter is to request a Class II Permissive change for **FCC ID: X5D-ITSCBTWIW5V2**, original granted on 11/14/2024

Applicant: **Man & Machine Inc.**

A. DESCRIPTION OF PRODUCT CHANGES

1. Add R15 (1MΩ) and C4 (1uF); USB enclosure is changed to be grounded through R15 and C4, in order to enhance the anti-static capability;
2. The charging management IC_U4 changed from SS4054 to CE3221; an NTC thermistor (10KΩ B=3435) was added to the protection board of the lithium battery, and a wire was led out to connect to the PCB, so that the keyboard had high and low temperature charging protection function;
3. R8 from 4.7K to 5.1K; R10 from 0Ω to 10KΩ; add R16 (1KΩ); add R11 (130K Ω); add R12(5.6KΩ); add R13 (10KΩ); add R14 (0Ω) , necessary peripheral circuits for matching the new charging management IC;

B. PERFORMANCE DIFFERENCES

| Description | Re-testing item | Remark |
|-------------------------------|-----------------|---|
| Conducted Output Power | Need | The output power no higher than original grant after pre-check, other items like 6dB bandwidth, PSD, Spurious emission at antenna port no need. |
| Field Strength of Fundamental | Need | The Field Strength of Fundamental no higher than original grant after pre-check, other items like 20dB bandwidth no need. |
| External Photos | No need | No change |
| Internal Photos | Need | Modify some component values |
| Test Setup Photos | Need | New measured required |
| Schematic | Need | Modify some component values |
| AC Mains Conducted Emission | Need | Component change effect AC mains conducted emission. |
| Radiated emission below 1 GHz | Need | Component change effect Radiated emission below 1 GHz |
| Radiated emission above 1 GHz | No need | Component change not effect Radiated emission above 1 GHz and power (Field Strength of Fundamental) no higher than |

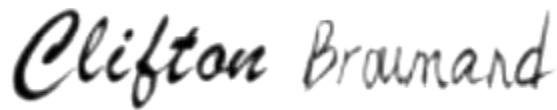
| | | |
|------------------------|------|----------------|
| | | original grant |
| RF exposure evaluation | Need | |

C. CONCLUSION

This radio continues to meet all FCC standard requirements, including RF Exposure, thus this change does meet requirements a Class II Permissive Change according to KDB178919.

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

Sincerely,



2025-05-07

Signature

Date

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