

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 (1M Ω) 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 (10K Ω 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 0 Ω to 10K Ω ; add R16 (1K Ω); add R11 (130K Ω); add R12(5.6K Ω); add R13 (10K Ω); add R14 (0 Ω) , 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,

Clifton Broumand

2025-05-07

Signature

Date

Name / Title: Clifton Broumand / President

Company: Man & Machine Inc.

Address: 3706 West Street, Landover, Maryland 20785, United States

Phone: +1-301-341-4900

Fax: +1-301-341-4078

E-Mail: clifton@mmimd.com