

Chengdu Meross Technology Co., Ltd.
 Add:Room 1312, Floor 13, Building 6-1, Zone E TianFu Software Park, GaoXin District Chengdu
 China
 Tel: +86-28-62050769 Fax: +86-28-62050769
 Email: villa.tian@meross.com

Single Modular Approval Letter

Date: 2020-08-14

FEDERAL COMMUNICATIONS COMMISSION

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

We, Chengdu Meross Technology Co., Ltd., hereby request Single Modular Approval for Product: Wi-Fi module (Model Number: MRE3S,MRE2S,MR2E,MRE3ST,MRE3STE, FCC ID: 2AMUU-MWA01). The EUT meets the requirement for modular approval as detailed in FCC 15.212. The requirement is described below:

Single Modular Approval Requirements			
No.	Requirements	EUT Conditions	Comply (Y/N)
1	The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	This modular has its own shielding. Refer to EUT photos.	Y
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	All inputs to the modules are buffered by MT7682SN. Refer to Schematics.	Y
3	The modular transmitter must have its own power supply regulation.	The modular uses the MCU chip (MT7682SN) with built-in power management components and the rated power is 2.97V-3.63V. Refer to schematics.	Y
4	The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a “unique” antenna coupler (at all connections between the module and the antenna, including the cable). The “professional installation” provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	The modular has one PCB antenna with 1.5dBi antenna gain. Refer to EUT photos.	Y

5	<p>The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i>, the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see Section 15.31(i)).</p>	Refer to test setup photos.	Y
6	<p>The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.</p> <p>If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: 2AMUU-MWA01” or “Contains FCC ID: 2AMUU-MWA01” Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.</p>	Refer to label and user manual.	Y
7	<p>The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.</p>	Refer to user manual.	Y

8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The device meets RF exposure evaluation greater than 20cm distance specified in §2.1091. If the device built into a host as a portable usage, the additional RF exposure evaluation may be required as specified by §2.1093.	Y
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Sincerely Yours,

Signature: Tian Wei

Tian Wei
Manager