



Declaration of the Modular Approval

Applicant / Grantee	M82
FCC ID:	M82-WISE-1840
Model:	WISE-1840

The single module transmitter has been evaluated then tested meeting the requirements under Part 15C Section 2.12 as below:

Modular approval requirement	EUT Condition	Comply
(a) 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.	WISE-1840 module have their own shielding.	 <p>Refer to the photo file.</p>
(b) 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.	<p>All inputs are processed as data by on-chip MCU.</p> <p>The outside user has no direct control of transmit modulation.</p> <p>The module can interface to externality using GPIOs/SPI/UART/I2C interface.</p>	<p>Refer</p> <p>Appendix "TI CC2538140000 6217-01"Page 3 Block Diagram"</p>
(c) The modular transmitter must have its own power supply regulation.	<p>The module contains its own voltage regulation circuit.</p> <p>In case of supply voltage variation, the voltage will be stabilized.</p>	<p>Refer</p> <p>Appendix "TI CC2538140000 6217-01"Page 3 Block Diagram"</p>
(d) 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.	<p>The module uses external antenna and cable.</p> <p>Detail of which can be found in Antenna specification and cable specification.</p>	<p>Refer Appendix Antenna specification and cable specification.</p>
(e) The modular transmitter must be tested in a stand-alone configuration, i.e., the	The modular transmitter is tested in a stand-alone condition.	Refer Appendix "

<p>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)) must not be inside another device during testing.</p>		<p>wise-1840 user manualv2"</p>
<p>(f) 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>The module will be labeled with FCC ID number.</p>	 <p>Refer to the label drawing.</p>
<p>(g) 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 requirements, which are based on the intended use/configurations.</p>	<p>The module is compliant with applicable FCC Rules. Instructions are provided in User Manual.</p>	<p>Refer to Appendix User Manual</p>
<p>(h) The modular transmitter must comply with any applicable RF exposure</p>	<p>The unit is compliant with the RF exposure requirements of Parts 15.247 and 2.1091.</p>	<p>Refer to Appendix User</p>



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requirements in its final configuration.

Manual

Dated

2019/08/1

By:

Lily Huang

Printed

Signature

Title:

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On behalf of :

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