

MODULAR APPROVAL LETTER

1st August 2025

Dear Application Examiner:

Extronics Ltd, iTAG X3i, 2A1ZEEXTRFID00006 is seeking modular approval. The radio meets the requirements for modular approval as detailed in FCC 15.212. Compliance to each of the requirements is described below:

Item	FCC 15.212 Requirement	Y/N	Comments
1	The radio elements of the modular transmitter must have their own shielding.	Y	The ESP32-C3-Mini module has its own RF Shielding
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.	Y	The ESP32-C3-Mini modular transmitter has buffered inputs
3	The modular transmitter must have its own power supply regulation.	Y	All the ESP32-C3-Mini power lines derived from the iTAG X3i are regulated before energizing other circuits internal to the module.
4	The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b) and 15.204(c).	Y	The ESP32-C3-Mini meets the FCC antenna requirements. It has an on-board antenna
5	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with part 15 requirements.	Y	The ESP32-C3-Mini was tested in a stand-alone configuration via a com serial interface
6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Y	The label on the ESP32-C3-Mini clearly indicates the FCC ID. The iTAG X3i has the FCC ID silk screened onto the PCB
7	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.	Y	The ESP32-C3-Mini is compliant with all applicable FCC rules. The iTAG X3i has a user manual with detailed instructions
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	Y	The iTAG X3i and ESP32-C3-Mini are approved to comply with the applicable RF exposure requirements.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Best regards,



Dr Julian R Poyner
Engineering Director