

Receiver
Federal Communication Commission

 Equipment Authorization Division, Application Processing Branch
 7435 Oakland Mills Road
 Columbia, MD 21048

Certification and Engineering Bureau

 Innovation, Science and Economic Development Canada
 Spectrum Engineering Branch
 3701 Carling Avenue, Building 94
 Ottawa, Ontario K2H 8S2

Subject:
Modular Approval Statement
Date:

1 April 2024

**FCC Certification
Number:**

2AEAK8910B1-11

Only applicable for ISED certification:
ISED Certification
Number: 12766A-8910B111

**PMN: (Product
Marketing Name)**

 Wireless
 Transceiver
 Module

**HVIN (Hardware Version
Identification Number):**

8910B1-11

HMN: (Host Marketing Name)
**FVIN: (Firmware Version
Identification Number)**

08910-1011-0001

- Single-modular transmitter: A complete RF transmission sub-assembly, designed to be incorporated into another device, that must demonstrate compliance with FCC rules and policies independent of any host;
- Limited single-modular transmitter: A single-modular transmitter that complies with the § 15.212(a)(1) modular rules, only when constrained to specific operating host(s) and/or associated grants condition(s);

TO WHOM IT MAY CONCERN

Pursuant to Paragraphs FCC part 15.212, we herewith declare for our module.

Single modular transmitters must meet all of the following requirements to obtain a modular transmitter approval. Limited modular approval may be granted for single that do not comply with all of the following requirements,

Single Modular approval requirement	Yes	No
(i) 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.	X	
Comment:		

(ii) The module 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.	X	
Comment:		
(iii) The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.	X	
Comment:		
(iv) The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), and 15.212(a). The “professional installation” provision of §15.203 is not applicable to modules but can apply to limited modular approvals. The equipment certification submission shall contain i) a detailed description of the configuration of highest antenna gain for each type of antenna. ii) the maximum transmitting antenna gain for license modules iii) a detailed description of the configuration of lowest antenna gain for each type of receiving antenna for Dynamic Frequency Selection (DFS) modules with removable antenna(s)	X	
Comment:		
(v) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be located inside another device during testing.	X	
Comment:		
(vi) The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements).	X	
Comment:		
(vii) 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.	X	
Comment:		
(viii) The module shall comply with applicable FCC RF exposure requirements, which are based on the intended use/configurations.	X	
Comment:		

Best Regards,

Ryan Kollman

1 April 2024

Ryan Kollman - Electrical Engineer
Collins Aerospace

INFO for applicant: LMA may be granted when **one or more** of the requirements in the table above cannot be demonstrated. LMA will also be issued in those instances where applicants can demonstrate that they will retain control over the final installation of the device, such that compliance of the end product is assured. In such cases, an operating condition on the LMA for the module must state that the module is only approved for use when installed in devices produced by a specific manufacturer.

When LMA is sought, the application for equipment certification must specifically state **how control of the end product**, into which the module will be installed, will be maintained, such that full compliance of the end product is always ensured.