

Date: 28 March 2022

Federal Communications Commission
Equipment Authorization Division, Application
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Columbia, MD 21046

Certification and Engineering Bureau
Innovation, Science and Economic Development Canada
Spectrum Engineering Branch
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Modular Approval Request

FCC ID: QZC-NXCMR200

ISED Certification number: 4557A-NXCMR200
HVIN (Hardware Version Identification Number): NXCMR200
HMN (Host Marketing Name): N/A
PMN (Product Marketing Name): NXCMR200
FVIN (Firmware Version Identification Number): N/A

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: Antenna tuning components are located outside the RF shield can. All other circuitry related to the radio subsystem of the device are placed underneath an installed RF shield. This includes all tuning capacitors, RF ICs, and lumped element circuitry.		
(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 and applicable Radio Standards Specification (RSS) under conditions of excessive data rates or over-modulation.	X	
Comment: The radio modem is designed and configured to comply with Part 15 and RSS requirements under all operating conditions		
(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: The NXCMR200 PCBA is powered by a permanently attached battery and does not regulate the battery input voltage. Elster Solutions accepts responsibility of installing the NXCMR200 PCBA with a battery that will provide identical voltage conditions as those tested during certification testing.		

(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: The NXCMR200 uses a monopole antenna printed on the top layer copper of the PCBA, i.e. it is permanently attached.		
(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: The NXCMR200 is compliant in a stand-alone configuration		
(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: The NXCMR200 is permanently labelled with the appropriate FCC ID		
(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: The NXCMR200 is compliant with applicable RF exposure requirements		
(viii) The module shall comply with applicable FCC and RSS-102 RF exposure requirements, which are based on the intended use/configurations.	X	
Comment: The NXCMR200 was tested to all applicable requirements		

Respectfully,

Charles Greene

Digitally signed by Charles
Greene
Date: 2022.03.28 18:09:01 -04'00'

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