

Date: 21 Sep 2020

Federal Communications Commission
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Modular Approval Request

FCC ID: QZC-NXCM

The following attestation addresses the requirements to support modular approval:

Modular approval requirement	Yes (provide brief statement)	No *
(a) The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly	Yes, all 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.	Antenna tuning components are located outside the RF shield can.
(b) The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal	Yes, the radio modem is designed and configured to comply with Part 15 requirements under all operating conditions.	
(c) The module must contain power supply regulation on the module		No, the NXCM PCBA does not regulate the provided input voltage. Elster Solutions accepts responsibility of installing the NXCM PCBA with an external battery that will provide identical voltage conditions as those tested during certification testing.
(d) 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), 15.212(a), 2.929(b)	Yes, the antenna utilized by the NXCM is a ceramic chip antenna that is permanently attached.	

Modular approval requirement	Yes (provide brief statement)	No *
(e) The module must demonstrate compliance in a stand-alone configuration		No, the NXCM was tested with potting applied to the PCBA. The antenna utilized by the NXCM is designed to function inside of a potted environment. Operation without potting would yield a lower effective radiated power and would not be an accurate measurement for compliance testing.
(h) The module must comply with RF exposure requirements	Yes, the NXCM is compliant with applicable RF exposure requirements.	
(f) The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements)	Yes, the NXCM is permanently labelled with the appropriate FCC ID	
(g) The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements	Yes, the NXCM was tested to all applicable requirements	

Respectfully,

John Holt

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