

Date: 30 Jan 2020

SUBJECT: Request for Modular Transmitter Approval

FCC ID: 2AVOA-SSM1 and IC: 25500-SSM1

Loen Engineering Inc requests limited single modular approval for the SSM1 module. This module will be limited for use in Loen Engineering Inc. extremity worn host devices only. This letter addresses the requirements below per FCC Rules 15.212.

Modular Approval Requirement	Yes	No
(i) The radio elements of the modular transmitter must have their own		
shielding. The physical crystal and tuning elements may be located external	٧	
to the shielded radio elements.		
(ii) The modular transmitter must have buffered modulation/data inputs( if		
such inputs are provided) to ensure the module will comply with part 15	٧	
requirements under conditions of excessive data rates or over-modulation.		
(iii) The modular transmitter must have its own power supply regulation.	٧	
(iv) The modular transmitter must comply with the antenna and transmission		
system requirements of 15.203, 15.204(b), and 15.204(c). The antenna must		
either be permanently attached or emply a "unique" antenna coupler (at all		
connections between the module and the antenna, including the cable). The	٧	
"professional installation" provision of 15.203 is not applicable to modules		
but can apply to limited modular approval under paragraph (b) of this section.		
(v) 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. Unless the transmitter module will be battery		
powered, it must comply with the AC line conducted requirements found in		
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	٧	
module (see 15.27(a)). The length of these lines shall be the length typical of		
actual use or, if that length is unknown, at least 10cm 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 15.31(i)).		



(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	٧	
(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.	٧	
(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	٧	

Regards,

Andrew Loen, P.Eng.

President

Loen Engineering Inc.