

RE FCC ID: 2AEAE-ISAW-RF-H0215

To the certification reviewer:

We are hereby applying for limited modular approval of the above-referenced FCC ID, based on compliance with most of the criteria as detailed below. The criteria not met are addressed below.

Sincerely,

Jelm Cam

Jeffrey Andle Vice President of Research and Design IntelliSAW Inc.

Part 15 Unlicensed Single Modular Transmitter Approval Justification per 15.212

	Requirement per 15.212	reference
(i)	The radio elements of the modular transmitter must have their own RF shielding.	The Module has RF shielding over the transmitter elements.
(ii)	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided.	There are no modulation inputs. All data and power lines are filtered and buffered.
(iii)	The modular transmitter must have its own power supply regulation.	 5V input power is regulated to 3.3V digital power. It is independently regulated and filtered to obtain 3.3V RF power. Critical sections have secondary RF power regulated to 3.0V. 3.3-5V input power is regulated to 1.8V digital power. It is independently regulated and filtered to obtain 1.8V RF analog.



(iv)	The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b) and 15.204(c).	The module is a circuit board assembly integral to multiple current and future products. It is not sold or provided to third parties, except for integration into OEM equipment designed in cooperation with and manufactured on behalf of IntelliSAW so as to account for all constraints of the module. The final installation of the system is in high power electrical assets, such as switchgear. (1) The systems are
		professionally installed and are not end user installed. (2) These assets are locked, and often in fenced/locked rooms for security purposes, and cannot be readily accessed to perform
()	The modular transmitter must be tested in a	modifications.
(v)	stand-alone configuration, i.e., the module	outside of the host on a special extender cable, as
	must not be inside another device during	shown in the test setup photos. X, Y, and Z module
	testing for compliance with Part 15	orientations were employed.
	parameters.	
(vi)	The modular transmitter must be equipped	Modules will use an affixed label.
	with either a permanently affixed label or	Host devices will reference the module.
	must be capable of electronically displaying	
	its FCC identification number. If the FCC ID	
	is not visible when the module is installed	
	inside another device, then the outside of	
	the device into which the module is	
	installed must also display a label referring	
	to the enclosed module.	
(vii)	The modular transmitter must comply with	The module complies fully with the operating
	any specific rules or operating	requirements of Part 15 section 231(e) as
	requirements that ordinarily apply to a	demonstrated in the test report exhibit when
	complete transmitter and the	antennas are enclosed in IEEE/ANSI C37.20
	manufacturer must provide adequate	compliant enclosures. See KDB 550099.
	instructions along with the module to	
	explain any such requirements. A copy of	
	these instructions must be included in the	
(,,;;;)	application for equipment authorization.	This module operator under Part 15 section 221/a)
(111)	any applicable PE expective requirements in	which is exampt from PE expective evaluation
	any applicable KF exposure requirements in	which is exempt from KF exposure evaluation
	its inial configuration.	owing to the very low operating power.