Applica	nt/Grantee	Enel X Way S.r.l.					
FCC ID: 2A50V-ST25							
Section 15.212 Modular Transmitters							
Request	for Modular		est for Limited Modular Approval	\square			
		Requirements	EUT Conditions	Comply (Y/N)			
1	Single Modular Approval Requirements						
1	transmitter m shielding. Th tuning capaci	ments of the modular ust have their own e physical crystal and tors may be located e shielded radio elements.	No shielding mounting by design.	Ν			
2	The modular buffered mod inputs are pro- module will or requirements	transmitter must have Julation/data inputs (if such ovided) to ensure that the comply with Part 15 under conditions of a rates or over-modulation.	The Modular transmitter chip includes a data framing system for ISO 18092(NFCIP-1) initiator, ISO 18092 (NFCIP-1) active target, ISO 14443A and B reader (including high bit rates). This block performs framing for receive and transmit according to the selected ISO mode and bit rate settings. In reception it takes the demodulated sub-carrier signal from the receiver. It recognizes the SOF, EOF and data bits, performs parity and CRC check, organizes the received data in bytes and places them in the FIFO. During transmit, it operates inversely, it takes bytes from the FIFO, generates parity and CRC bits, adds SOF and EOF and performs final encoding before passing the modulation signal to the transmitter. It contains a 96-byte FIFO. Depending on the mode, it contains either data that has been received or data to be transmitted. The control logic contains I/O registers that define operation of	Y			
3		transmitter must have its apply regulation.	device. DC Voltage regulation	Y			
4	The modular with the anter system requir 15.204(b) and must either be employ a "un all connection the antenna, i "professional Section 15.20	transmitter must comply nna and transmission rements of Sections 15.203, d 15.204(c). The antenna e permanently attached or ique" antenna coupler (at ns between the module and ncluding the cable). The installation" provision of 03 is not applicable to can apply to limited	Text executed also for evaluation board FCC certification. The antenna is PCB integrated.	Y			

	modular approvals under paragraph (b) of this section.		
5	The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , 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 Section 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 module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters 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 Section 15.31(i)).	Module tested in representative host.	N
6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. (A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number 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. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization. (B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is	The modular transmitter will be equipped with the FCC identification number. Case A: It will be usually installed inside other devices, so it will be not visible. The outside of the device will have a label explaining ""Contains Transmitter Module"	Y

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	installed inside another device, then the outside					
	of the device into which the module is installed					
	must display a label referring to the enclosed module. This exterior label can use wording such					
	as the following:					
	"Contains FCC certified transmitter module(s)."					
	Any similar wording that expresses the same					
	meaning may be used. The user manual must					
	include instructions on how to access the					
	electronic display. A copy of these instructions					
	must be included in the application for					
	equipment authorization.					
7	The modular transmitter must comply		Y			
	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.					
8	The modular transmitter must comply		Y			
	with any applicable RF exposure					
	requirements in its final configuration.					
A limited	d modular approval may be granted for sir	gle or split modular transmitters that do not	comply with			
all of the	above requirements, e.g., shielding, minimu	um signaling amplitude, buffered modulatio	n/data inputs, or			
power su	pply regulation, if the manufacturer can der	nonstrate by alternative means in the application	ation for			
-		meets all the applicable Part 15 requirement				
operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product						
configurations. The applicant for certification must 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.						
and be instance will be maintained such that full compliance of the end product is diways ensured.						