

03/15/2021

Additional Information Request: Further explanation for letter “X” in Emission “X1D”

Hello, in regards to your request for further information on emission code X1D, this was confirmed through an external contact at an NRTL and existing FCC/IC certifications using the same RF transceiver as outlined below.

Confirming with the NRTL agency, the modulation type “X: Case not covered” was used because LoRa is a special modulation not defined in the list of section 2.201 of FCC Title 47.

In addition, with the goal being to utilize already approved LoRa modules or suitable chipsets targeting compliance to FCC, the off-the-shelf Semtech SX1262 RF transceiver is used in an existing Fanstel module, model LR62E (<https://www.fanstel.com/lr1262>).

Screenshots of this website show use of Semtech SX1262 LoRa transceiver with FCC/IC certifications:

LR62E, Semtech SX1262 module



M262833, LR62E LoRa Module

Certifications:

- FCC ID: X8WLR62E
- IC (Industrial Canada) ID: 4100A-LR62E

LR62E LoRa Module

LR62E is a Semtech SX1262 LoRa transceiver module. Specifications are:

Verifying the IC ID online shows the approval with emission code X1D, shown in the screenshot on the next page.

Hope this clears up why emission code “X” was used and is the best letter description for Semtech SX1262 LoRa transceiver.

Please feel free to contact me with any questions or concerns. Thank you for your time and help!

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Radio Equipment List (REL) - Details for: LR62E-V0

[Product Modifications \(C2PC, C3PC, C4PC\)](#)[Multiple Listing](#)[Add New Product\(s\) \(C1PC\)](#)[Partial Transfer](#)

Company Number:	4100A
Company Name:	FANSTEL CORPORATION, TAIPEI
Certification Number:	4100A-LR62E
Approval Date:	Tue Sep 15 00:00:00 EDT 2020
Hardware Version Identification Number (HVIN):	LR62E-V0
Product Marketing Name (PMN):	LR62E
Host Marketing Name (HMN):	--
Firmware Version Identification Number (FVIN):	SemtechLoraTestV1.0
Equipment Description:	Lora module
Type of Radio Equipment:	Spread Spectrum or Digital Device (902-928 MHz)
	Modular Approval

Lab Information

Certified By:	Telefication BV	4173A
Wireless Lab:	International Standards Laboratory	4067B
SAR Lab:	--	--
RF Exposure Lab:	--	--
Nerve Stimulation Lab:	--	--
Power Density Lab:	--	--
Hearing Aid Compatibility Lab:	--	--

Emission(s) Click on a Specification link to view the Emission Details

Specification	Issue Number	Frequency Range		Emission Designator	Power		Field Strength	Dist.
		From	To		Min.	Max.		
RSS247 Non-DFS	2	902.0 MHz	928.0 MHz	510KX1D	110.0 mW	110.0 mW	--	--

Note: The above table is generated based on information received from Certification Bodies, Manufacturers or Suppliers at time of certification.

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