

Test Report No.: FCCSZ2024-0003-H

RF Test Report

FCC ID : 2AYHY-CT10X

EUT : Smart Current Transformer

MODEL : See Section 2.2

BRAND NAME : Milesight

APPLICANT : Xiamen Milesight IoT Co., Ltd.

Classification of Test : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

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	Name: Xiamen Milesight IoT Co., Ltd. Address: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China					
Client						
		Name: Xia	men Miles	ight loT Co	o., Ltd.	
Manufacturer		Address: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China				
		Name: Sn	nart Curre	nt Transfo	rmer	
		Model/Ty	pe: See Se	ection 2.2		
Equipment U	nder Test	Brand: Milesight				
		Serial No	.: N/A			
		Sampe No.: 2-1				
Date of Receipt. 2024.01.10			Date of Testing		2024.01.10~2024.02.22	
Test Specification		on			Test Result	
FCC	Part 2 (Section 2	2.1091)				
	KDB 447498 D0	4 PASS		PASS		
	IEEE C95.1					
		The equipment under test was found to comply with the				
		requirements of the standards applied.				
Evaluation of Tes	t Result					
		Seal of CVC Issue Date: 2024.02.23				
Tested by:		Reviewed by:		y:	Approved by:	
Cai Jianyu		Huang Meng		7	AS	
<u>Cai Jianyu</u>		<u>Huang Meng</u>		ng	<u>Dong Sanbi</u>	
Name	Signature	Nan	ne S	Signature	Name Signature	
Other Aspects: N	ONE.					
Abbreviations:OK, Pas	s= passed F	ail = failed	N/A= not ap	pplicable	EUT= equipment, sample(s) under tested	

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0003-H	Original release	2024.02.23

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1. GENERAL PRODUCT INFORMATION

PRODUCT	Smart Current Transformer
BRAND	Milesight
MODEL	CT103-915M
ADDITIONAL MODEL	See Section 2.2
POWER SUPPLY	AC 120V/60Hz
ODED ATING EDECUENCY	DTS 500kHz, 903MHz~927.5MHz
OPERATING FREQUENCY	Hybrid 125kHz, 902.3MHz~927.8MHz
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

Remark

- 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. EUT photo refer to the report (Report NO.: FCCSZ2024-0003-EUT).

2. ADDITIONAL MODEL/TYPE

Main Model No.	Serial Model No.	Difference		
	NO103-915M, CT103-9M,NO103-9M	only differences are the model no and appearance silkprint.		
	CT101-915M,NO101-915M, CT101-9M,NO101-9M	1.Main Model No and Serial Model No only differences are the external Current Transformer. 2.Serial Model only differences are the model no and appearance silkprint.		
CT103-915M	CT105-915M,NO105-915M, CT107-915M,NO107-915M, CT109-915M,NO109-915M, CT110-915M,NO110-915M, CT301-915M,NO301-915M, CT303-915M,NO303-915M, CT305-915M,NO305-915M, CT310-915M,NO310-915M, CT315-915M,NO315-915M, CT320-915M,NO320-915M, CT325-915M,NO325-915M,	1.Main Model No and Serial Model No. only differences are the external Current Transformer. 2.Serial Model only differences are the model no and appearance silkprint.		

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CT225 01516310225 01516	
CT335-915M,NO335-915M,	
CT340-915M,NO340-915M,	
CT105-9M,NO105-9M,	
CT107-9M,NO107-9M,	
CT109-9M,NO109-9M,	
CT110-9M,NO110-9M,	
CT301-9M,NO301-9M,	
CT303-9M,NO303-9M,	
CT305-9M,NO305-9M,	
CT310-9M,NO310-9M,	
CT315-9M,NO315-9M,	
CT320-9M,NO320-9M,	
CT325-9M,NO325-9M,	
CT330-9M,NO330-9M,	
CT335-9M,NO335-9M,	
CT340-9M,NO340-9M	

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3. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

Where:

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\,\mathrm{cm}\sqrt{f}}\right)$$

and f is in GHz; and

$$P_{\text{th}} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$

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4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type	
LORA	3.73	External Antenna	

This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The measured conducted Average Power

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
LORA	902.3MHz~927.8MHz	3	+-1	2	4

The tuned conducted Average Power (declared by client)

Technology	Maximum conducted power (dBm)	Maximum Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Distance (cm)	Part1.1307b Threshold (mW)	Verify
LORA	4	3.73	5.58	3.61	20	1840.692	PASS

----- End of the Report -----

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Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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