

FCC TEST REPORT

Prepared for:

EDA Technology Shanghai Co., Ltd.

Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Product Name: CM4 Industrial

Trade Mark: **□□**

Product Model(s): ED-CM4IND, ED-CM4INDP

Date of Test: Jun. 25, 2024 - Jul. 02, 2024

Date of Report: Jul. 02, 2024

Report Number: HK2406253364-1ER

Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

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TEST REPORT VERIFICATION

Applicant : EDA Technology Shanghai Co., Ltd.

Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road,

Address : Jiading District, Shanghai, PRC

Manufacturer : EDA Technology Shanghai Co., Ltd.

Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road,

Address : Jiading District, Shanghai, PRC

Product Name : CM4 Industrial

(A) Product Model: ED-CM4IND

(B) Series Model : ED-CM4INDP

(C) Power Supply: DC8-36V

FCC Part 15 Subpart B

Standards......ANSI C63.4:2019

This device described above has been tested by HUAK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Test Result......Pass

Date of Test: Jun. 25, 2024 – Jul. 02, 2024

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Technical Director



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ATTACHMENT PHOTOGRAPHS OF EUT



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** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	2024/07/02	Jason Zhou	
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	HUN	W HOLE	HOLE HOLE	





1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Test Item Limit Judgment					
FCC Part 15 Subpart B	Conducted Emission	Class A	PASS	9		
ANSI C63.4:2019	Radiated Emission	Class A	PASS	ESTING		

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NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.
- (3) Equipment meeting Class A requirements may not offer adequate protection to broadcast services within a residential environment.

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1.1 TEST FACILITY

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Report No.: HK2406253364-1ER

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$ where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$ providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Measurement Frequency Range	Uncertainty	NOTE
150 KHz ~ 30MHz	±2.71dB	ESTIN

B. Radiated Measurement:

- 1/3		-103
Measurement Frequency Range	Uncertainty	NOTE
30MHz ~ 1000MHz	±3.90dB	
1GHz ~6GHz	±4.28dB	● HO

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	CM4 Industrial	0	(a)
Product Model	ED-CM4IND	TESTING	
Series Model	ED-CM4INDP	MUAN	AKTESTING
Model Difference	All model's the function, same, only with a product Test sample model: ED-0	t color and model nam	
	The EUT is a CM4 Indu	O HUM	ING HUAN TEST
Product Description	Operating frequency: Connecting I/O port:	N/A N/A	
	Based on the application exhibited in User's Manual ITE/Computing Device. specification, please ref	ual, the EUT is conside More details of EUT to	ered as an echnical
Power Source	DC Voltage	HUAN	AKTESTING
Power Rating	DC8-36V	- 1G	O HO.

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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	Working	

For Conducted Test					
Final Test Mode	Description				
Mode 1	Working	OKTESTING			

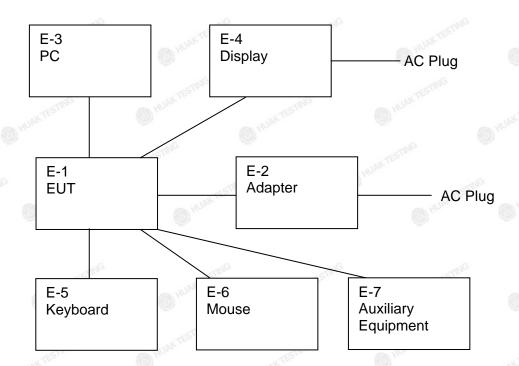
For Radiated Test					
Final Test Mode	Description				
Mode 1	Working				

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2.3 DESCRIPTION OF TEST SETUP

Mode 1:





2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

		200			1000
Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note
E-1	CM4 Industrial	EDA	ED-CM4IND	N/A	EUT
E-2	Adapter	N/A	KSASB0241200100D5	N/A	TING
E-3	PC PC	Lenovo	ThinkpadE450	N/A	
E-4	Display	PHILIPS	279E1	N/A	
E-5	Keyboard	N/A	N/A	N/A	W TESTING
E-6	Mouse	N/A	N/A	N/A	20
E-7	Auxiliary Equipment	N/A	N/A	N/A	
STING	SIME	STING	STANG	-miG	SING
KTEN		HUAK TES	HUAKTE		WAKTER

Item	Shielded Type	Ferrite Core	Length	Note
	TESTING	HUAKTE	ING HUAKTE	TESTING
	White.	HILPIN		MIAN.
		ESTING	A TESTING	
cT.	NG ESTING OF HUME	TING	TESTINE OF HUMAN	TING TESTING
HUAKTE	HUARE	HINAK IT. WHUM	W.A.	WAY TO HUAR
.)G	6	6	VG	.10
TESTIN	MAKTESTIN	"IAK TESTII"	AK TEST	TESTIN

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
MKTETIN	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	May 09, 2024	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6.	Preamplifier	EMCI	EMC05184 5S	HKE-006	Feb. 20, 2024	1 Year
,,,,7. TE	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	1 Year
9.	6d Attenuator	Pasternack	6db	HKE-184	May 09, 2024	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	OKTESTING / HUAK	ESTING (II)

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

The following table is the setting of the receive	
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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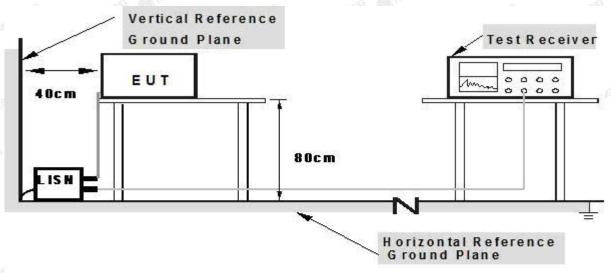
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

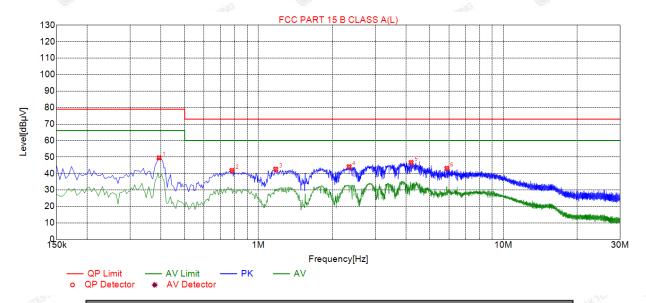
The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 TEST RESULTS

1			
EUT:	CM4 Industrial	Model Name. :	ED-CM4IND
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010hPa	Test Date :	2024-06-27
Test Mode:	Mode 1	Phase :	Leting
Test Voltage :	DC12V From Adapter	TESTING	TESTING

Report No.: HK2406253364-1ER



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.3930	49.46	19.84	79.00	29.54	29.62	PK	L			
2	0.7800	41.83	19.86	73.00	31.17	21.97	PK	L			
3	1.1760	42.58	19.90	73.00	30.42	22.68	PK	L			
4	2.3460	44.06	20.00	73.00	28.94	24.06	PK	L			
5	4.2000	46.63	20.09	73.00	26.37	26.54	PK	L			
6	5.8830	43.09	20.09	73.00	29.91	23.00	PK	L			

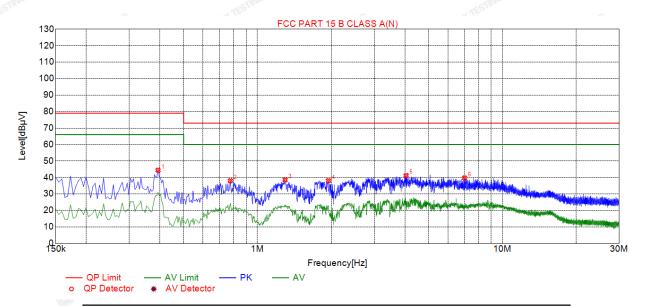
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



	AG AND T	**G **********************************	AG AN
EUT:	CM4 Industrial	Model Name. :	ED-CM4IND
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010hPa	Test Date :	2024-06-27
Test Mode :	Mode 1	Phase :	N TESTING
Test Voltage :	DC12V From Adapter	O HUA.	HUM. HUM.



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.3930	44.41	19.73	79.00	34.59	24.68	PK	N			
2	0.7755	38.03	19.74	73.00	34.97	18.29	PK	N			
3	1.2975	38.54	19.78	73.00	34.46	18.76	PK	N			
4	1.9500	38.08	19.83	73.00	34.92	18.25	PK	N			
5	4.0470	41.18	19.97	73.00	31.82	21.21	PK	N			
6	7.0080	39.72	19.96	73.00	33.28	19.76	PK	N			

Remark: Margin = Limit – Level
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)			
FREQUENCY (MHz)	dBuV/m	dBuV/m			
30 ~ 88	39.0	40.0			
88 ~ 216	43.5	43.5			
216 ~ 960	46.5	46.0			
Above 960	49.5	54.0			

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

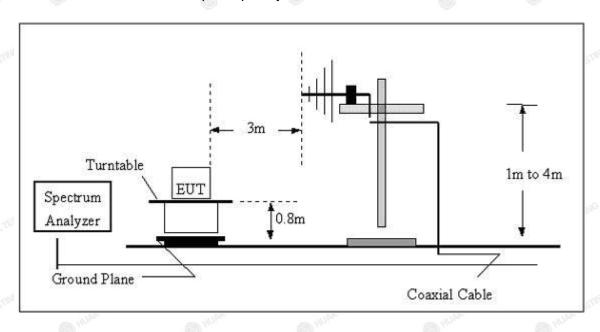
3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos

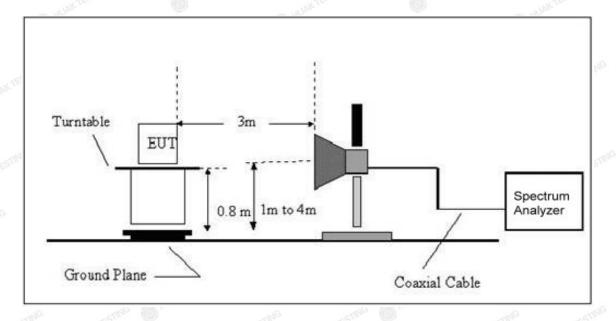


3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



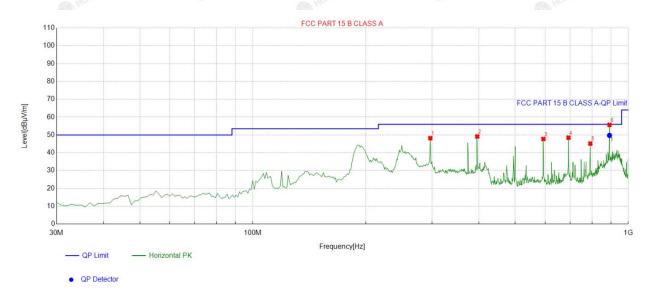
3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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3.2.5 TEST RESULTS

EUT:	CM4 Industrial	Model Name :	ED-CM4IND
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2024-06-27
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC12V From Adapter	26	K TESTING



Suspe	Suspected List											
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle				
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	297.01701	-11.84	60.04	48.20	56.00	7.80	100	80	Horizontal			
2	396.05605	-9.26	58.41	49.15	56.00	6.85	100	342	Horizontal			
3	594.13413	-5.06	52.81	47.75	56.00	8.25	100	9	Horizontal			
4	693.17317	-4.14	52.62	48.48	56.00	7.52	100	63	Horizontal			
5	792.21221	-3.25	48.41	45.16	56.00	10.84	100	356	Horizontal			
6	891.25125	-1.49	57.17	55.68	56.00	0.32	100	334	Horizontal			

Final	Final Data List								
	Freq.	Factor	QP Reading	QP Value	QP Limit	QP Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	891.0446	-1.49	51.24	49.75	56.00	6.25	100	334	Horizontal

Final Data List

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

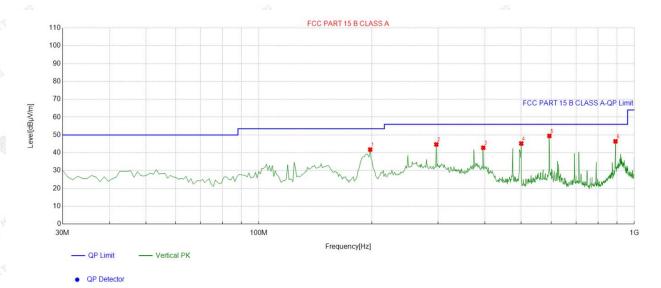
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		172	
EUT:	CM4 Industrial	Model Name :	ED-CM4IND
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2024-06-27
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC12V From Adapter	JUAKTESTII	JUAN TESTIN

Report No.: HK2406253364-1ER



3.	Suspected List										
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
10000	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
3	1	197.97797	-14.86	56.67	41.81	53.50	11.69	100	360	Vertical	
	2	297.01701	-11.84	56.53	44.69	56.00	11.31	100	204	Vertical	
	3	396.05605	-9.26	52.08	42.82	56.00	13.18	100	196	Vertical	
	4	499.94995	-8.17	53.39	45.22	56.00	10.78	100	22	Vertical	
ð	5	594.13413	-5.06	54.52	49.46	56.00	6.54	100	342	Vertical	
	6	891.25125	-1.49	47.92	46.43	56.00	9.57	100	137	Vertical	

Final Data List

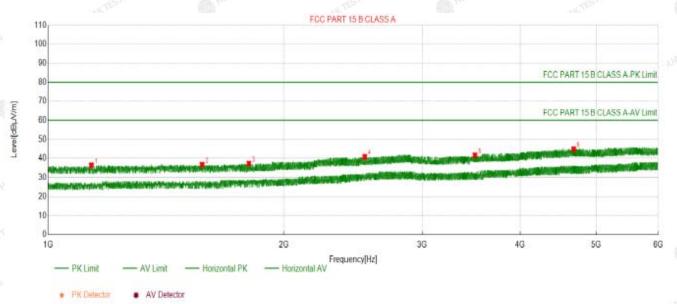
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;



3.2.6 TEST RESULTS(Above 1GHz)

EUT:	CM4 Industrial	Model Name :	ED-CM4IND
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2024-06-27
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC12V From Adapter		TESTING

Report No.: HK2406253364-1ER



Suspected List

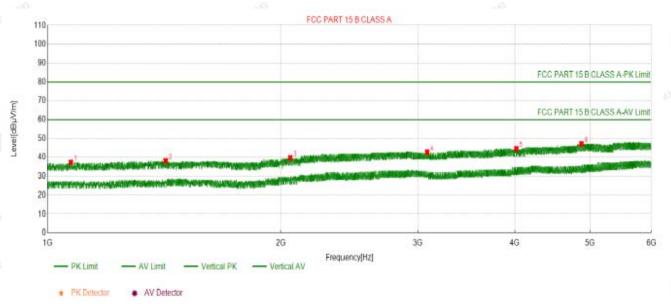
Susp	pected List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	
1	1135.8136	-20.28	56.64	36.36	80.00	43.64	100	127	Horizontal
2	1572.6573	-19.00	55.70	36.70	80.00	43.30	100	112	Horizontal
3	1804.4804	-18.40	55.69	37.29	80.00	42.71	100	35	Horizontal
4	2532.9533	-14.63	55.45	40.82	80.00	39.18	100	6	Horizontal
5	3501.6502	-13.98	55.62	41.64	80.00	38.36	100	68	Horizontal
6	4681.0681	-10.17	55.10	44.93	80.00	35.07	100	58	Horizontal

Final Data List

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;



	OF THE HO.	alG MIND			
EUT:	CM4 Industrial	Model Name :	ED-CM4IND		
Temperature :	24 ℃	Relative Humidity:	54%		
Pressure :	1010 hPa	Test Date :	2024-06-27		
Test Mode :	Mode 1	Polarization:	Vertical		
Test Power ·	DC12V From Adapter	HUPU CO	HUPS HUPS		



Suspected List

	Suspe	uspected List								
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	
9	1	1071.6072	-20.46	57.81	37.35	80.00	42.65	100	204	Vertical
	2	1420.2420	-19.21	57.36	38.15	80.00	41.85	100	102	Vertical
	3	2056.3056	-17.00	56.80	39.80	80.00	40.20	100	200	Vertical
	4	3083.4083	-14.39	57.18	42.79	80.00	37.21	100	326	Vertical
	5	4018.3018	-12.30	57.02	44.72	80.00	35.28	100	358	Vertical
Y.	6	4876.0876	-10.14	57.33	47.19	80.00	32.81	100	214	Vertical

Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



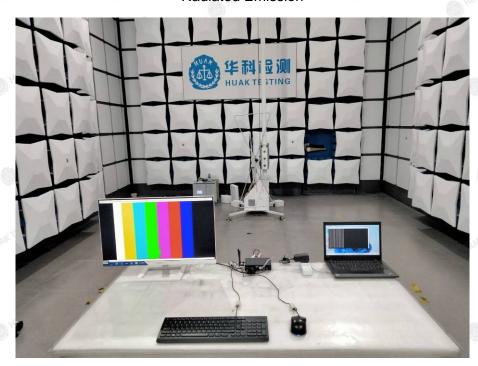
4. EUT TEST PHOTO

Conducted Emission

Report No.: HK2406253364-1ER



Radiated Emission



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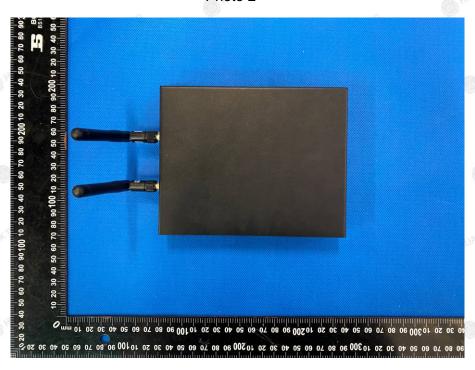


ATTACHMENT PHOTOGRAPHS OF EUT Photo 1

Report No.: HK2406253364-1ER



Photo 2



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Photo 4









Photo 6

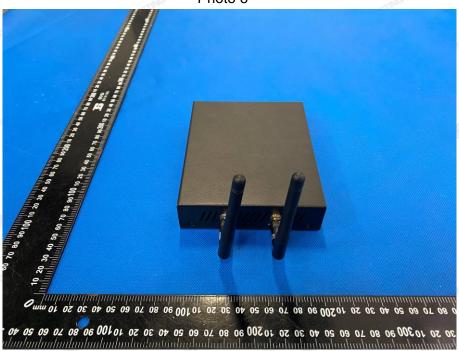
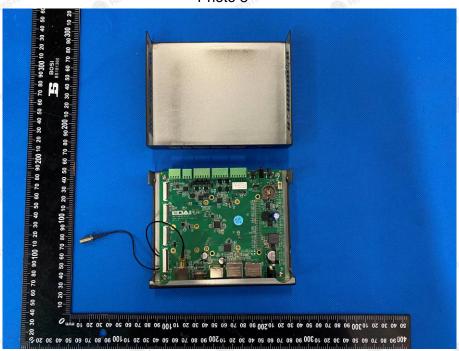








Photo 8







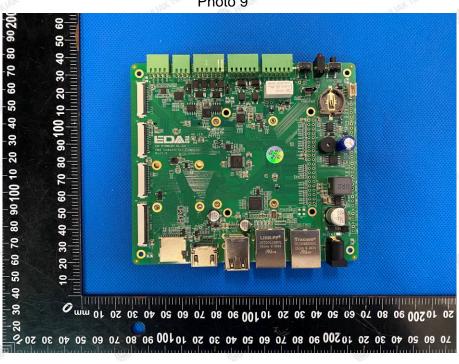
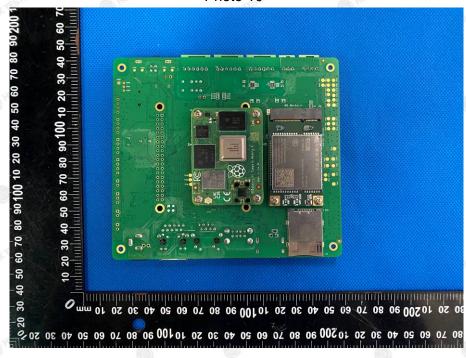


Photo 10





Report No.: HK2406253364-1ER

Photo 11

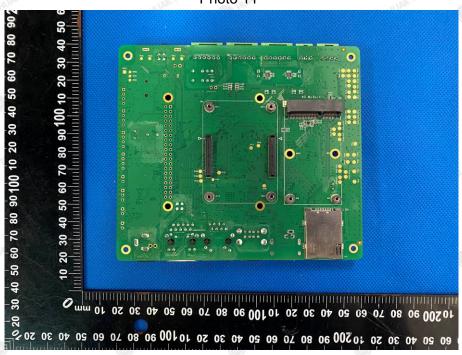


Photo 12

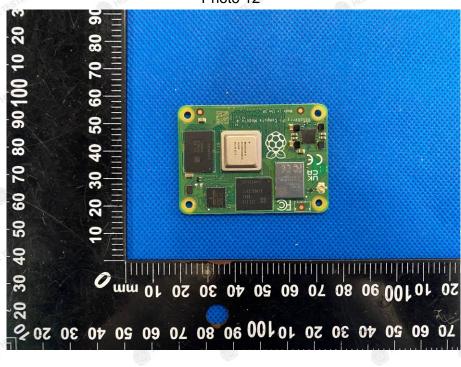




Photo 13

Photo 10

Photo 13

Photo 13

Photo 10

Photo 13

Photo 10

Photo 13

Photo 10

Photo

Photo 14

Photo 10

Photo 14

Photo 10

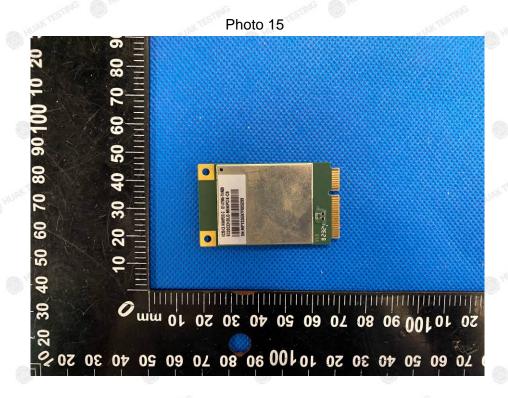
Photo 10

Photo 14

Photo 10

Photo





.....End of Report.....