

FCC Test Report

Test report
On Behalf of
TimeTec Computing Sdn Bhd
For
Door Access & Time Attendance System
Model No.: Kadex+ ;

Prepared By : Shenzhen WST Testing Co., Ltd.
87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen,
Guangdong, China

Date of Test: Sep. 18, 2025 ~ Sep. 28, 2025
Date of Report: Sep. 28, 2025
Report Number: WST25N090142-1ER

TEST RESULT CERTIFICATION**Manufacturer's Name**.....: TimeTec Computing Sdn BhdAddress.....: Level 18, Tower 5 PFCC, Jalan Puteri 1/2, Bandar Puteri, 47100,
Puchong, Selangor, Malaysia**Product description**

Product name.....: Door Access & Time Attendance System

Trade Mark.....: FingerTec

Model and/or type reference : Kadex+

Standards.....: FCC Part 15 Subpart B
ANSI C63.4:2014

This device described above has been tested by WST, 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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Date of Test.....:

Date (s) of performance of tests.....: Sep. 18, 2025 ~ Sep. 28, 2025

Date of Issue.....: Sep. 28, 2025

Test Result.....: **Pass****Testing Engineer** :

(Sam Tan)

Technical Manager :

(Fanny Zhang)

Authorized Signatory :

(Michael Ling)



1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 DESCRIPTION OF TEST SETUP	8
2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.5 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	14
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	14
3.2.2 TEST PROCEDURE	14
3.2.3 TEST SETUP	15
3.2.4 EUT OPERATING CONDITIONS	15
3.2.5 TEST RESULTS	16
3.2.6 TEST RESULTS(Above 1GHz)	18
4 . EUT TEST PHOTO	19
ATTACHMENT PHOTOGRAPHS OF EUT	20

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part 15 Subpart B ANSI C63.4:2014	Conducted Emission	Class B	N/A	
	Radiated Emission	Class B	PASS	

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.

1.1 TEST FACILITY

Shenzhen WST Testing Co., Ltd.

Add. : 87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement :

Tet Site	Method	Measurement Frequency Range	U · (dB)	NOTE
WSTC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U · (dB)	NOTE
WSTA01	ANSI	30MHz ~ 1000MHz	4.7	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Door Access & Time Attendance System	
Model Name	Kadex+	
Serial No	N/A	
Model Difference	N/A	
Product Description	The EUT is a Door Access & Time Attendance System	
	Operating frequency:	N/A
	Connecting I/O port:	DC Voltage
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Power Source	DC Voltage	
Power Rating	DC 12V, 3A	

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	Running

For Conducted Test	
Final Test Mode	Description
Mode 1	N/A

For Radiated Test	
Final Test Mode	Description
Mode 1	Running

2.3 DESCRIPTION OF TEST SETUP

Mode 1:

DC Input

E-1
EUT



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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Door Access & Time Attendance System	FingerTec	Kadex+	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

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

CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101313	June 30, 2026
2	LISN	EMCO	3816/2	00042990	June 30, 2026
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	June 30, 2026
4	Test Cable	N/A	C01	N/A	June 30, 2026
5	Test Cable	N/A	C02	N/A	June 30, 2026
6	Test Cable	N/A	C03	N/A	June 30, 2026
7	EMI Test Receiver	R&S	ESCI	101160	June 30, 2026
8	Passive Voltage Probe	ESH2-Z3	R&S	100196	June 30, 2026
9	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	June 30, 2026
10	Absorbing Clamp	R&S	MDS-21	100423	June 30, 2026

RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Bilog Antenna	TESEQ	CBL6111D	31216	June 30, 2026
2	Test Cable	N/A	R-01	N/A	June 30, 2026
3	Test Cable	N/A	R-02	N/A	June 30, 2026
4	EMI Test Receiver	R&S	ESCI-7	101318	June 30, 2026
5	Antenna Mast	EM	SC100_1	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	June 30, 2026
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	June 30, 2026
9	Horn Antenna	EM	EM-AH-10180	2011071402	June 30, 2026
10	Amplifier	EM	EM-30180	060538	June 30, 2026

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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.

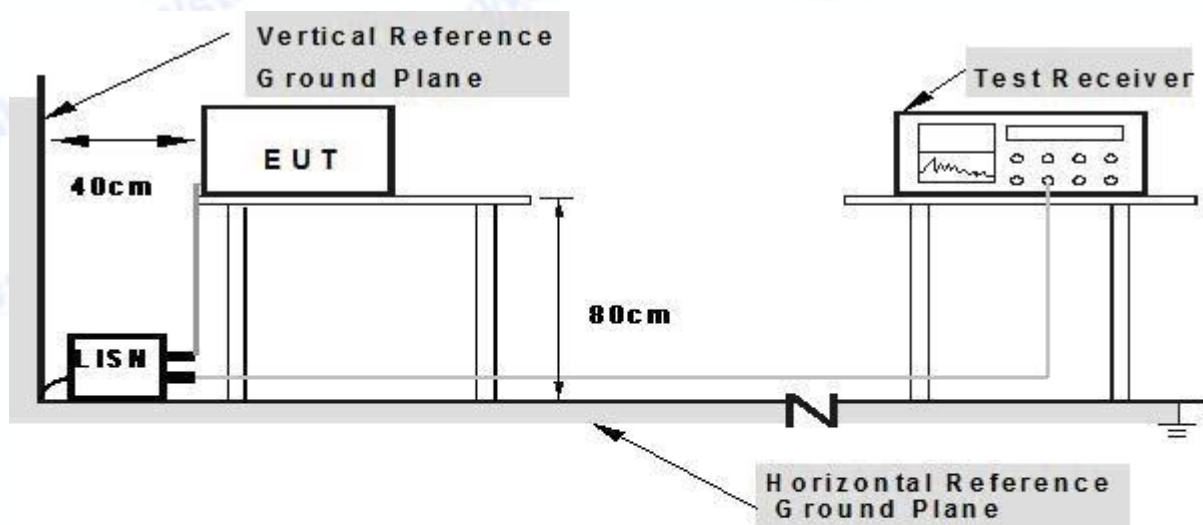
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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.
- 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 LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm 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

EUT :	Door Access & Time Attendance System	Model Name. :	Kadex+
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	N/A
Test Mode :	N/A	Phase :	N/A
Test Voltage :	N/A		

Note:

- 1) N/A - denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	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:

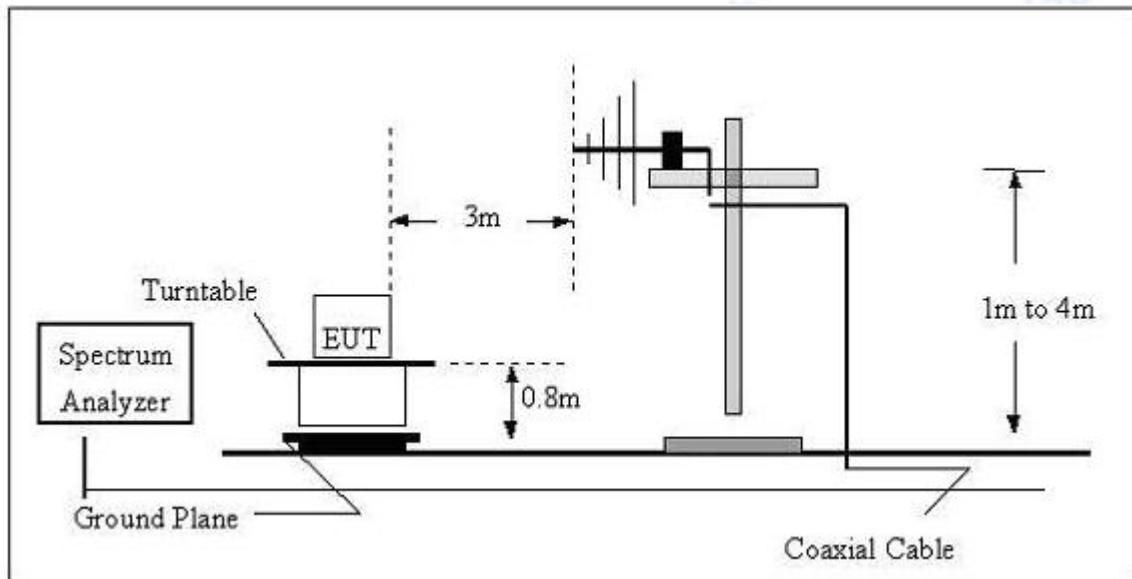
- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

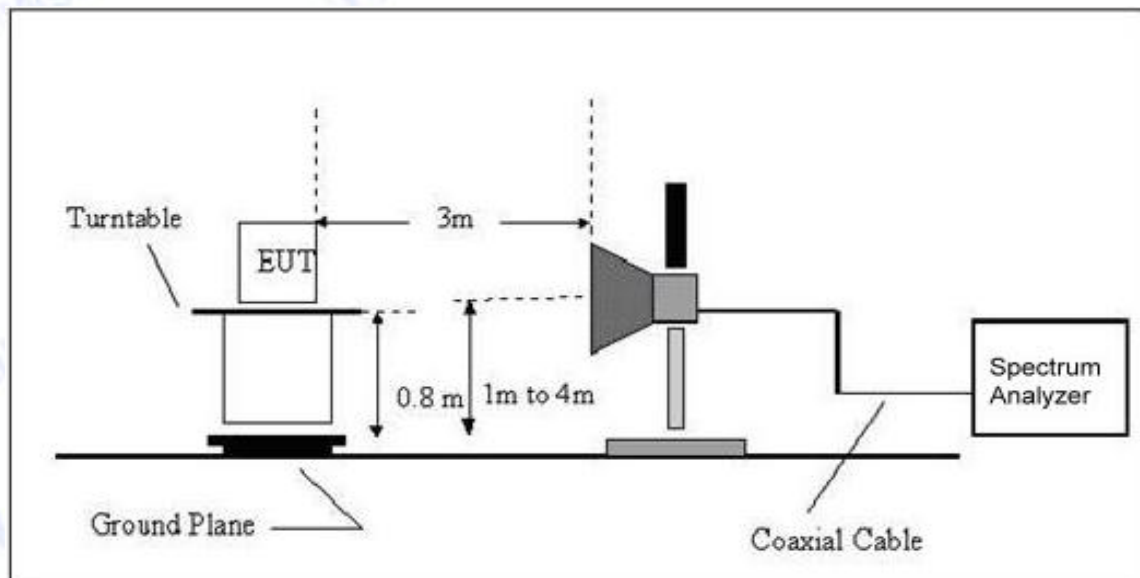
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 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.

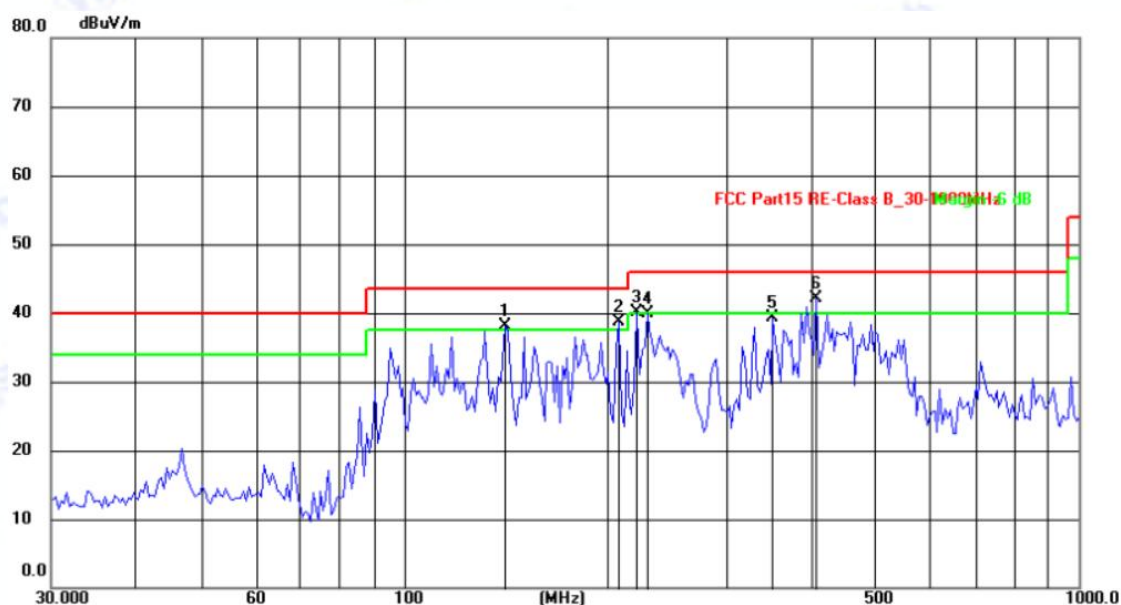
3.2.5 TEST RESULTS

EUT :	Door Access & Time Attendance System	Model Name :	Kadex+
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-09-26
Test Mode :	Full Load	Polarization :	Horizontal
Test Power :	DC 12V		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	141.5777	54.88	-16.87	38.01	43.50	-5.49	QP
2	208.2148	57.10	-18.38	38.72	43.50	-4.78	QP
3	221.3921	57.87	-17.69	40.18	46.00	-5.82	QP
4	229.2930	57.07	-17.08	39.99	46.00	-6.01	QP
5	352.3250	55.99	-16.76	39.23	46.00	-6.77	QP
6	408.9459	58.16	-16.13	42.03	46.00	-3.97	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit

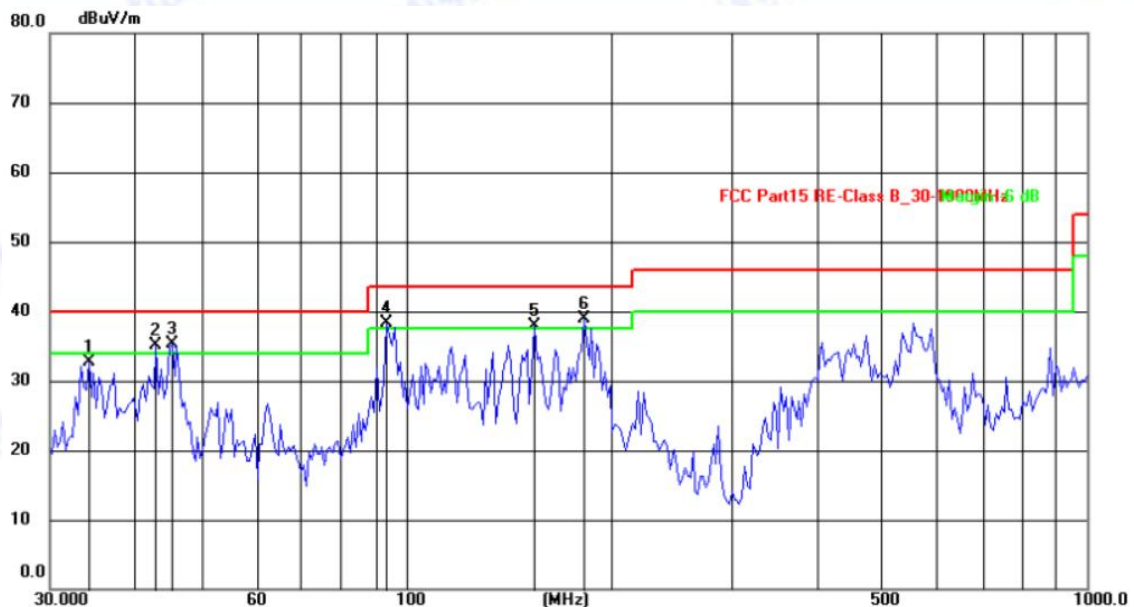


EUT :	Door Access & Time Attendance System	Model Name :	Kadex+
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-09-26
Test Mode :	Full Load	Polarization :	Vertical
Test Power :	DC 12V		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.2159	50.46	-17.74	32.72	40.00	-7.28	QP
2	42.9750	52.07	-16.99	35.08	40.00	-4.92	QP
3	45.2959	52.31	-17.09	35.22	40.00	-4.78	QP
4	93.7684	59.69	-21.39	38.30	43.50	-5.20	QP
5	154.5493	58.30	-20.39	37.91	43.50	-5.59	QP
6	182.5592	58.77	-19.95	38.82	43.50	-4.68	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit



3.2.6 TEST RESULTS(Above 1GHz)

EUT :	Door Access & Time Attendance System	Model Name :	Kadex+
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	N/A
Test Mode :	N/A		
Test Power :	N/A		

Note:

- 1) N/A - denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode

4. EUT TEST PHOTO

Radiated Measurement Photo



ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2

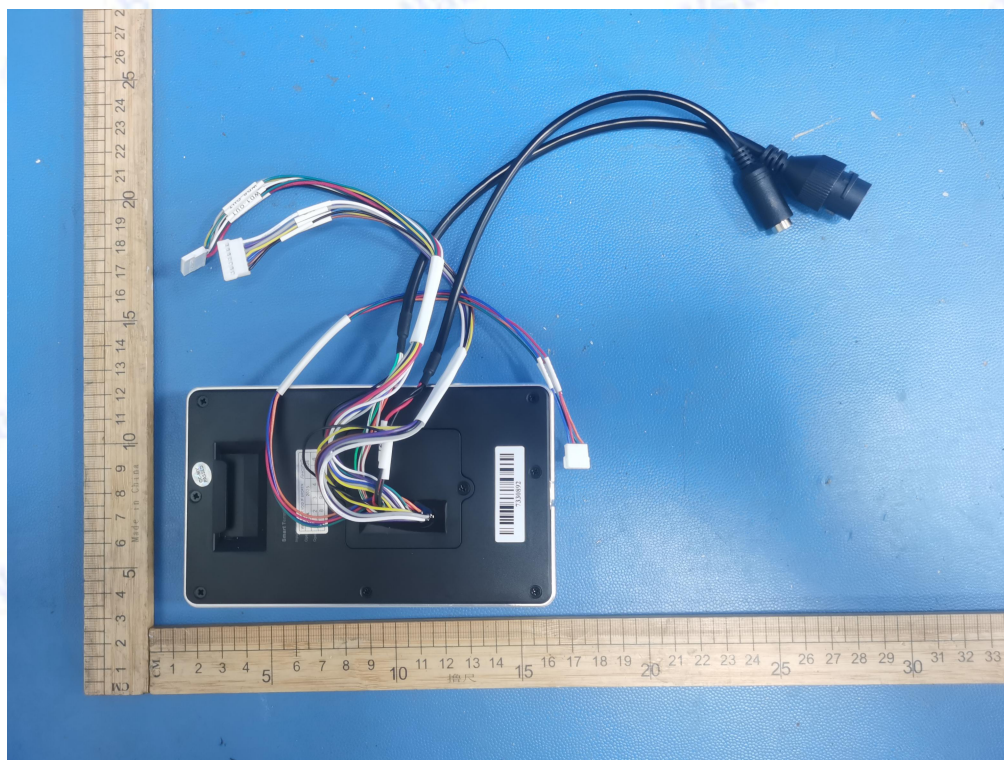


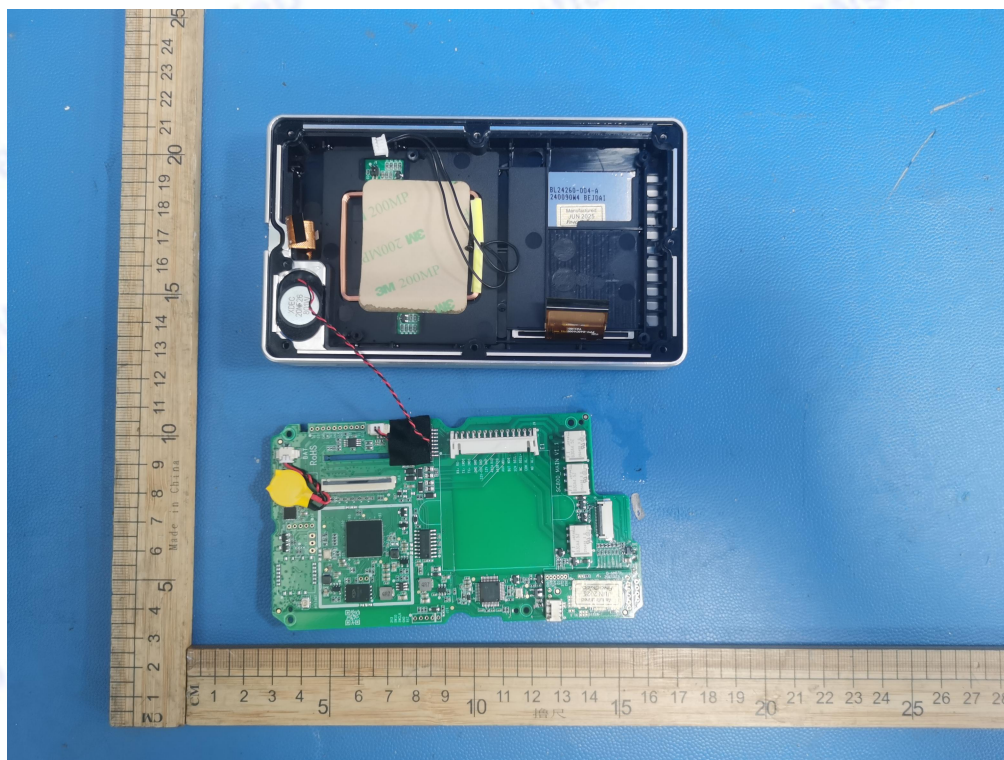
Photo 3



Photo 4



Photo 5



---The end of report---