
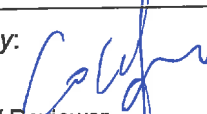
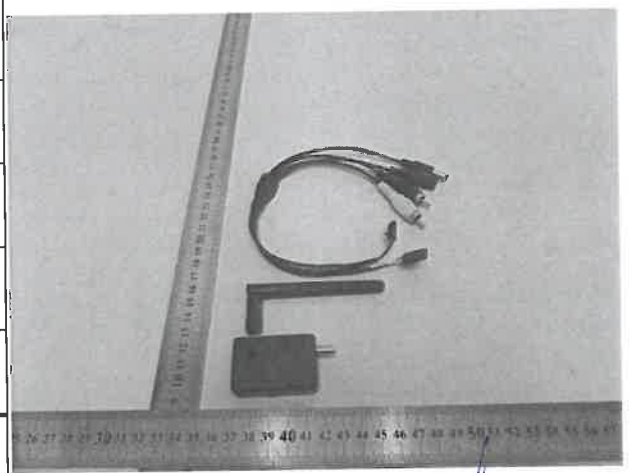


Prüfbericht-Nr.: <i>Test Report No.:</i>	17035858 001	Auftrags-Nr.: <i>Order No.:</i>	164008388	Seite 1 von 14 <i>Page 1 of 14</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	08. 10, 2013		
Auftraggeber: <i>Client:</i>	SHENZHEN AOWEISHI TECHNOLOGY CO., LTD Floor 6, Block 5, MengLiYuan Industrial Park, YouSong Road, LongHua New District, Shenzhen 518100, Guangdong, P. R. China				
Prüfgegenstand: <i>Test item:</i>	Wireless Transmitter				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	TX58CE				
Auftrags-Inhalt: <i>Order content:</i>	Safety test report for R&TTE approval				
Prüfgrundlage: <i>Test specification:</i>	EN 60950-1:2006+A11+A1+A12				
Wareneingangsdatum: <i>Date of receipt:</i>	08. 10, 2013				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000025123-001 A000076149-001				
Prüfzeitraum: <i>Testing period:</i>	16, 10, 2013--23, 10, 2013, 20, 06, 2014--28, 06, 2014				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:  Jun. 27, 2014 Paddy Qiu / Assiant Project Manager		kontrolliert von / reviewed by:  June 27, 2014 Colin Fan / Reviewer			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: This short report includes following parts: - Test report with cover page (14 pages) - equipment list (8 page) - Photo documentation (3 pages)					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					



Test Report issued under the responsibility of:



TEST REPORT IECEN 60950-1 Information technology equipment – Safety – Part 1: General requirements	
Report Number.....	17035858 001
Date of issue.....	See cover page
Total number of pages.....	See cover page
CB Testing Laboratory	N/A
Address.....	N/A
Applicant's name	See cover page
Address.....	See cover page
Manufacturer's name	The same as applicant
Address.....	The same as applicant
Test specification:	
Standard.....	EN 60950-1:2006+A11+A1+A12
Test procedure.....	Safety test report for R&TTE approval
Non-standard test method.....	N/A
Test Report Form No.	IECEN60950_1C
Test Report Form(s) Originator.....	SGS Fimko Ltd
Master TRF.....	Dated 2012-08
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
Test item description	Wireless Transmitter
Trade Mark.....	The logo for Flysight, featuring a stylized bird in flight above the word "Flysight" in a bold, sans-serif font.
Manufacturer.....	The same as applicant
Model/Type reference.....	TX58CE
Ratings.....	DC 6~16V

Testing procedure and testing location: See cover page	
<input type="checkbox"/>	CB Testing Laboratory:
Testing location/ address :	
<input type="checkbox"/>	Associated CB Laboratory:
Testing location/ address :	
Tested by (name + signature)	
Approved by (name + signature)	
<input type="checkbox"/>	Testing procedure: TMP
Testing location/ address :	
Tested by (name + signature)	
Approved by (name + signature)	
<input type="checkbox"/>	Testing procedure: WMT
Testing location/ address :	
Tested by (name + signature)	
Witnessed by (name + signature)	
Approved by (name + signature)	
<input type="checkbox"/>	Testing procedure: SMT
Testing location/ address :	
Tested by (name + signature)	
Approved by (name + signature)	
Supervised by (name + signature) ...:	
<input type="checkbox"/>	Testing procedure: RMT
Testing location/ address :	
Tested by (name + signature)	
Approved by (name + signature)	
Supervised by (name + signature) ...:	

Summary of testing:	
Tests performed (name of test and test clause): 1.6.2, Input Current Test 1.7.11, Durability of Marking Test 4.5.1, Maximum Temperature Test 5.3, Fault Condition Test	Testing location: See cover page
Summary of compliance with National Differences List of countries addressed: EU Group Differences, EU Special National Conditions, EU A-Deviations	
<input checked="" type="checkbox"/> The product fulfils the requirements of <u>listed standards on cover page</u>	

Copy of marking plate:



Test item particulars	
Equipment mobility	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
Operating condition	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other: DC supplied with max. 16V
Mains supply tolerance (%) or absolute mains supply values	N/A
Tested for IT power systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IP20
Altitude during operation (m)	2000
Altitude of test laboratory (m)	<2000
Mass of equipment (kg)	59g
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	See cover page
Date(s) of performance of tests	See cover page
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	

Manufacturer's Declaration per sub-clause 6.2.5 of IEC60950:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:

Yes
 Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies).....: The same as applicant

General product information:

1. The equipment is a wireless transmitter which used to transmit the video/audio signal via wireless technology.
2. The equipment is supplied by external DC supply, rated voltage 6-16Vdc. The external DC source considered to comply to LPS which specified by manufacturer.

Maximum operating temp.: 55°C.

EUT operated with altitude up to 2000m above sea level.

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1	General		P
1.5	Components	(see appended tables 1.5.1)	P
1.6	Power interface	(see appended tables 1.6.2)	P
1.7	Marking and instructions		P
2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards	Class III product, all voltage not exceeding 42.4V _{peak} or 60V d.c.	P
2.2	SELV circuits	Class III product, all voltage not exceeding 42.4 V _{peak} or 60V d.c.	P
2.3	TNV circuits		N/A
2.4	Limited current circuits		N/A
2.5	Limited power sources		N/A
2.6	Provisions for earthing and bonding		N/A
2.7	Overcurrent and earth fault protection in primary circuits		N/A
2.8	Safety interlocks		N/A
2.9	Electrical insulation	Functional insulation only	P
2.10	Clearances, creepage distances and distances through insulation	Class III product	N/A
3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		N/A
3.2	Connection to a mains supply		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
3.3	Wiring terminals for connection of external conductors		N/A
3.4	Disconnection from the mains supply		N/A
3.5	Interconnection of equipment	SELV circuits only, no data port.	P
4	PHYSICAL REQUIREMENTS		P
4.1	Stability	Less than 7kg	N/A
4.2	Mechanical strength	Class III product, no hazardous voltage or energy hazards internal.	N/A
4.3	Design and construction	Class III product, no hazardous voltage or energy hazards. LEDs are used for indication only.	P
4.4	Protection against hazardous moving parts		N/A
4.5	Thermal requirements	(see appended table 4.5)	P
4.6	Openings in enclosures	No openings	N/A
4.7	Resistance to fire	Equipment is supplied by external DC source which considered comply to L.P.S. No fire enclosure required.	P
5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current	No direct mains connection. No possible touch current considered.	N/A
5.2	Electric strength	Class III equipment	N/A
5.3	Abnormal operating and fault conditions	(See append table 5.3)	P
6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.1	Protection of telecommunication network Service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.3	Protection of the telecommunication wiring system from overheating		N/A
7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	General		N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.4	Insulation between primary circuits and cable distribution systems		N/A
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N/A
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		P
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		N/A
P	ANNEX P, NORMATIVE REFERENCES		—
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		N/A
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N/A
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment		N/A
EE	ANNEX EE, Household and home/office document/media shredders		N/A
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
ZB	ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)		P
ZC	A-DEVIATIONS (informative)		P
Zx (A12.2011)	Protection against excessive sound pressure from personal music players (Not such product)		N/A

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity	
Plastic enclosure	Interchangeable	Interchangeable	HB, 1.5mm min, 80°C, ABS	UL 94	UL	
PCB	Interchangeable	Interchangeable	V-0, 105°C	UL796	UL	
Supplementary information:						

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V)	I (mA)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
6	157	--	0.94	--	--	Max. normal operation	
16	62	--	0.99	--	--	Max. normal operation	
Supplementary information: Transmit the audio signal via wireless technology.							

4.5	TABLE: Thermal requirements			P				
Supply voltage (V)		See below		—				
Ambient T _{min} (°C)		--		—				
Ambient T _{max} (°C)		--		—				
Maximum measured temperature T of part/at:		T (°C)		Allowed T _{max} (°C)				
		6Vdc	16Vdc					
External enclosure near U4 (Plastic)		23.4	23.2	95-(55-23)=63				
Internal enclosure near U4 (Plastic)		36.7	38.6	80-(55-23)=48				
PCB near HS		47.7	50.6	105-(55-23)=73				
U1*		39.0	40.4	105-(55-23)=73				
U4*		48.6	52.9	105-(55-23)=73				
DC connector		23.5	23.7	95-(55-23)=63				
Ambient		23.3	23.1	--				
Supplementary information:								
<ul style="list-style-type: none"> - Heating test conducted at ambient temperature, and the max. ambient temperature 55°C declared by the manufacturer. - *PCB limit used: 105°C 								
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--								

5.3		TABLE: Fault condition tests					P
		Ambient temperature (°C)				see below	—
		Power source for EUT: Manufacturer, model/type, output rating				--	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (mA)	Observation	
C6	s-c	16Vdc	1hr	--	--	Unit not operate. (62mA→142mA→62mA) The input current cycled between 62mA and 142mA. Max. measured temperature: U4*: 81.2°C PCB near HS* : 47.0°C Ambient: 22.2°C No damage, no hazards.	
U4 pin2-3	s-c	16Vdc	10mins	--	--	Unit shut down immediately. (62mA→0mA) Recoverable when remove the fault. No damage, no hazards.	
Supplementary information: s-c=short circuit							
*No temperature limit, for reference only.							

Product: Wireless Transmitter

Type Designation: TX58CE

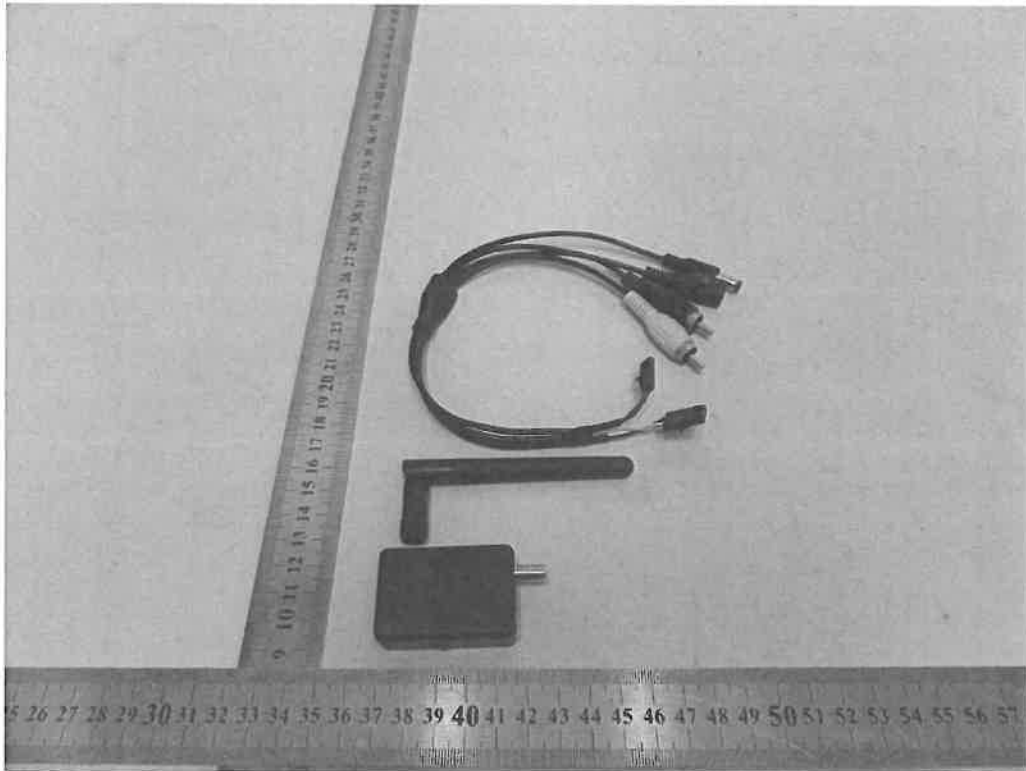


Fig. 1: Overall view

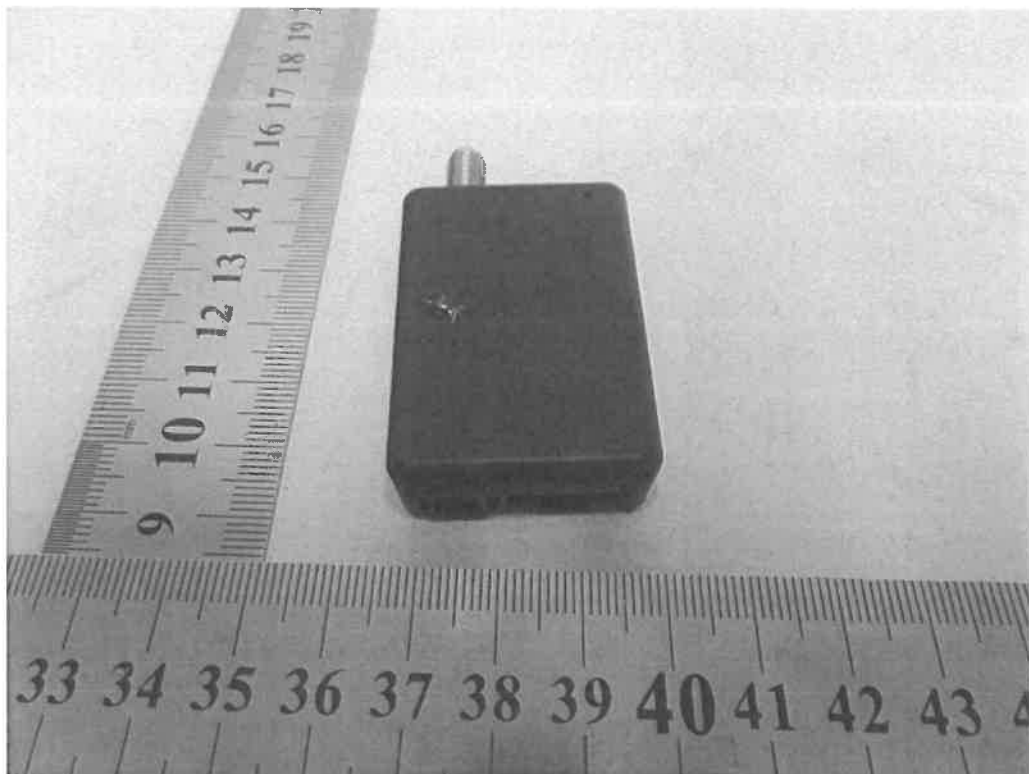


Fig. 2: Front and top view

Product: Wireless Transmitter

Type Designation: TX58CE



Fig. 3: Rear and bottom view

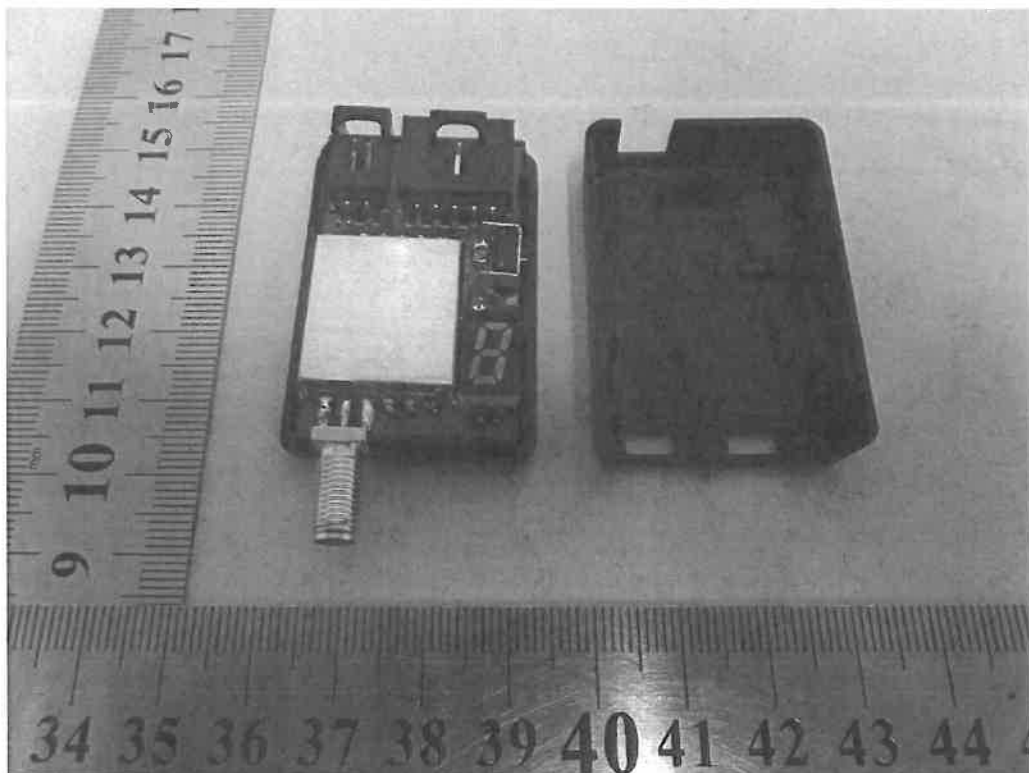


Fig. 4 Internal view

Product: Wireless Transmitter

Type Designation: TX58CE

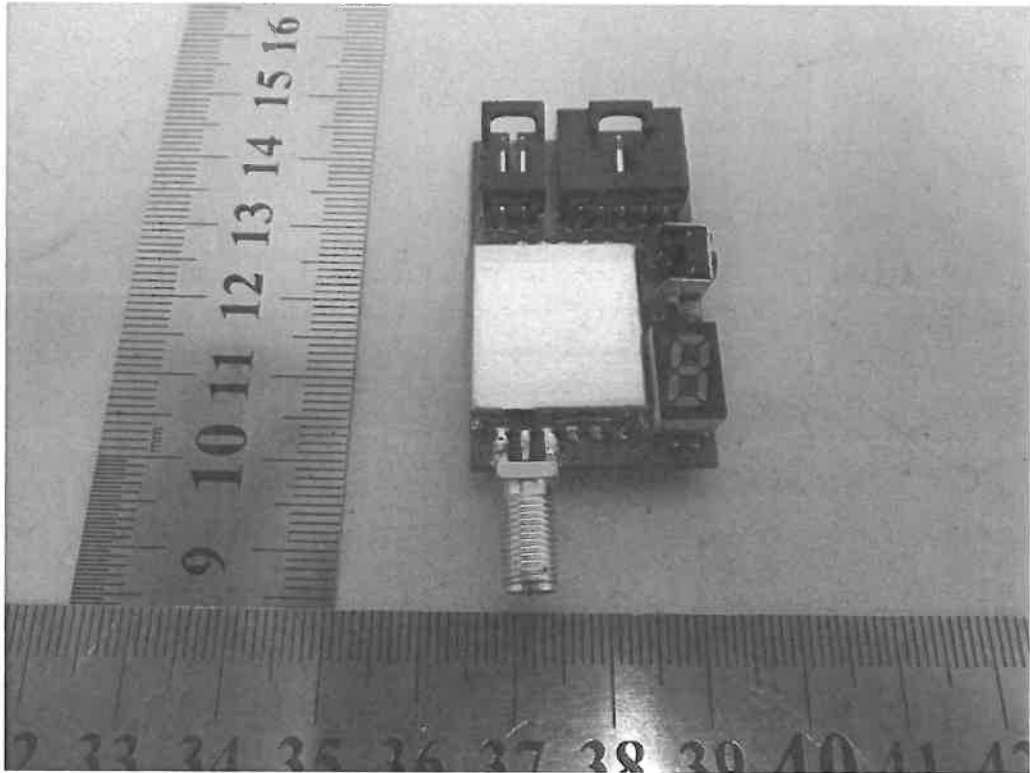


Fig. 5: Main Board top view

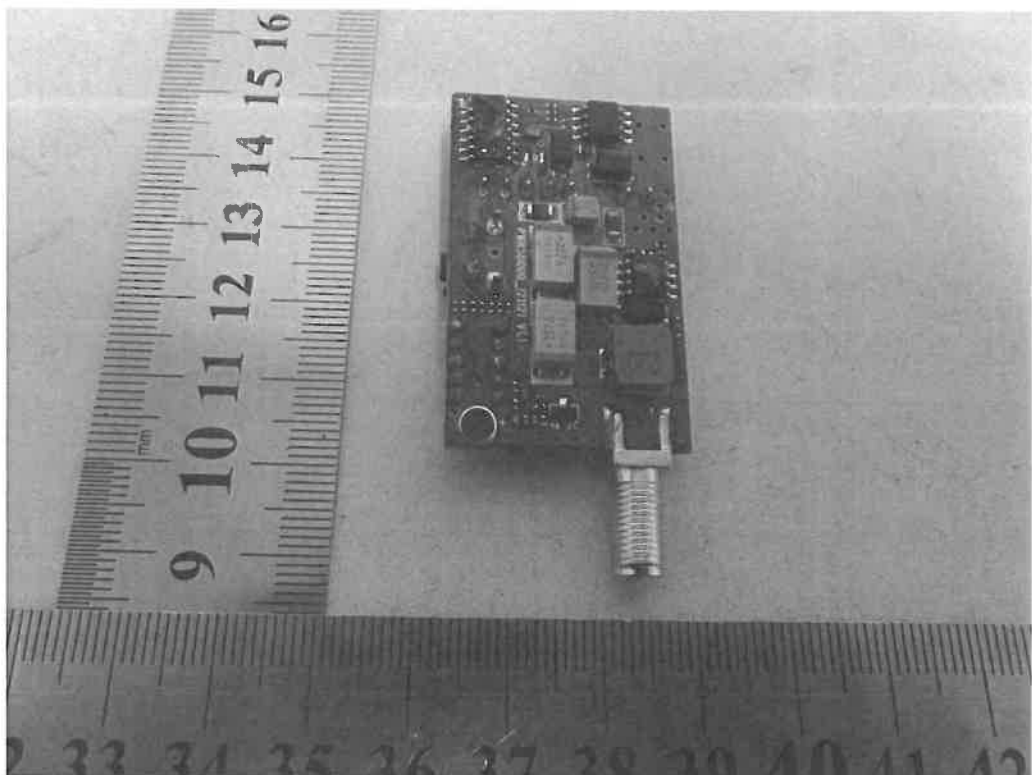


Fig. 6: Main board bottom view