

Test Report

Report No: GZES210301456101

Date: 2021-09-01

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant : Blueview Elec-optic Tech Co., Ltd.
1000, Section 2, 2nd Konggang Road, Southwest Aviation Industrial Development Zone, Chengdu, Sichuan, China

Manufacture: Same as applicant

Test object : BV-ZHBS-GATEWAY ZigBee

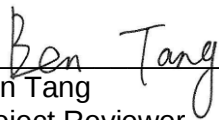
Model : ZN.02016

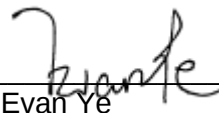
Test specifications / Test standard : EN 62368-1:2014 + A11:2017

Purpose of examination : Test according to the test specification.

Test result : In the opinion of SGS-CSTC the presented appliance was found to be in compliance with the test specification.

Remark : Throughout this report a comma is used as the decimal separator


Ben Tang
Project Reviewer
Safety Laboratory


Evan Ye
Project Engineer



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1. Function / Description :

BV-ZHBS-GATEWAY ZigBee is the Gateway unit which powered by DC, with power off upload function, LAN terminals connected to indoor local area network, plastic enclosure was fixed by screws.

As declared by manufacture, the EUT shall be powered by PS2 source. For indoor used only.

2. Ratings :

Model :	ZN.02016
Rated input :	12 V DC; 2 W
Rated output :	--
Protection Class :	Class III
Construction :	Wall-mounted
Supply connection :	DC connector
Operation mode :	Continuous
Weight:	118 g

3. Label :

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Blueview Elec-optic Tech Co., Ltd

Model No.: ZN.02016

Input voltage: 12V DC Rated power: 2W

Working temperature: 0°C~45°C

Temperature coefficient: $\pm 0.03\%/^{\circ}\text{C}$ (0°C~50°C)

Function:

1. Remote dimming, control the matching power supply and sensor
2. Wireless data reporting, reporting the working state of supporting power supply, load power, short-circuit alarm, alarm value of sensor, etc
3. Remote upgraded, remote wireless upgrade of supporting power supply, sensor, touch screen, etc
4. Report promptly after power failure

Please log in to the management center : www.blueview.cn

Made In China

Unique identification code



1. The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm

2. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

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Guangzhou Branch

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4. Test :

The test was done in the Electrical Safety Laboratory of SGS-CSTC in Guangzhou.

These tests fulfil the requirements of standard ISO/IEC 17025.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

The max. recommended ambient temperature is 45 °C by manufacturer

Test voltage: 12 Vd.c.

Possible test case verdicts:

Test case does not apply to the test object : N/A (or N)

Test item does meet the requirement : P(ass)

Test item does not meet the requirement : F(ail)

Testing :

Date of receipt of test item : 2021-03-26

Date(s) of performance of tests : 2021-03-29 – 2021-06-09



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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:	
(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.	
Electrically-caused injury (Clause 5): (Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input ES1	
Source of electrical energy	Corresponding classification (ES)
Whole unit	ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): PS2	
Source of power or PIS	Corresponding classification (PS)
Whole unit	PS2
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component Glycol	
Source of hazardous substances	Corresponding chemical
N/A	N/A
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2	
Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners	MS1
Equipment mass (<7kg)	MS1
Wall-mounted (>2m)	MS3
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1	
Source of thermal energy	Corresponding classification (TS)
External enclosure of unit	TS1



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Radiation (Clause 10)	
(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1	
Type of radiation	Corresponding classification (RS)
N/A	N/A

OVERVIEW OF EMPLOYED SAFEGUARDS				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	ES1	--	--	--
6.1	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
Whole unit	PS2: whole unit	1, No ignition occurred. 2, No parts exceeding 90% of its spontaneous ignition temperature	PWB min. V-1	--
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	--	--	--
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3:High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Wall/ ceiling mount (>2m)	MS3	--	--	mounting test
9.1	Thermal Burn			



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Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary	TS1: External enclosure	--	--	--
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	--	--	--
Supplementary Information:				
(1) See attached energy source diagram for additional details.				
(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault				



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Clause	Requirement	Remarks	Verdict
4	General requirements		--
4.1	General		P
4.2	Energy source classifications		P
4.3	Protection against energy sources		P
4.4	Safeguard		P
4.5	Explosion		N/A
4.6	Fixing of conductors		N/A
4.7	Equipment for direct insertion into mains socket-outlets		N/A
4.8	Products containing lithium coin / button cell batteries		P
4.9	Likelihood of fire or shock due to entry of conductive objects	Not possible entry of conductive object	N/A
5	Electrically-caused injury		--
5.1	General		P
5.2	Classification and limits of electrical energy sources	ES1	P
5.3	Protection against electrical energy sources		N/A
5.4	Insulation materials and requirements		N/A
5.5	Components as safeguards		N/A
5.6	Protective conductor		N/A
5.7	Prospective touch voltage, touch current and protective conductor current		N/A
6	Electrically- caused fire		--
6.1	General		P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)	PS2	P
6.3	Safeguards against fire under normal operating conditions and abnormal operating conditions	No occurring of ignition; Temperatures under normal and abnormal operating conditions see below result tables	P
6.4	Safeguards against fire under single fault conditions	Control of fire spread	P
6.5	Internal and external wiring		P



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Clause	Requirement	Remarks	Verdict
6.6	Safeguards against fire due to the connection of additional equipment		N/A
7	Injury caused by hazardous substances		--
7.1	General		N/A
7.2	Reduction of exposure to hazardous chemicals		N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards (PPE)		N/A
7.5	Use of instructional safeguards and instructions		N/A
7.6	Batteries and their protection circuits		N/A
8	Mechanically-caused injury		--
8.1	General		P
8.2	Mechanical energy source classifications	MS1, MS3	P
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners		P
8.5	Safeguards against moving parts		N/A
8.6	Stability of equipment		N/A
8.7	Equipment mounted to wall or ceiling		P
8.8	Handles strength		N/A
8.9	Wheels or casters attachment requirements		N/A
8.10	Carts, stands and similar carriers		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.12	Telescoping or rod antennas		N/A
9	Thermal burn injury		--
9.1	General	TS1	P
9.2	Thermal energy source classifications		P
9.3	Protection against thermal energy sources		N/A
9.4	Requirement for safeguards		N/A
10	Radiation		--
10.1	General		N/A
10.2	Radiation energy source classifications		N/A
10.3	Safeguards against laser radiation		N/A



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Clause	Requirement	Remarks	Verdict
10.4	Safeguards against visible, infra-red, and ultra-violet radiation		N/A
10.5	Safeguards against x-radiation		N/A
10.6	Safeguards against acoustic energy sources		N/A
Annex B	Normal operating condition tests, abnormal operating condition tests and single fault condition tests		P
Annex C	Uv radiation		N/A
Annex D	Test generators		N/A
Annex E	Test conditions for equipment containing audio amplifiers		N/A
Annex F	Equipment markings, instructions, and instructional safeguards		P
Annex G	Components		P
Annex H	Criteria for telephone ringing signals		N/A
Annex J	Insulated winding wires for use without interleaved insulation		N/A
Annex K	Safety interlocks		N/A
Annex L	Disconnet devices		N/A
Annex M	Equipment containing batteries and their protection circuits		P
M.1	General requirements		P
M.2	Safety of batteries and their cells		P
M.2.1	Requirements		P
M.2.2	Compliance and test method (identify method)		P
M.3	Protection circuits		P
M.3.1	Requirements		P
M.3.2	Tests		P
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		P



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	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		P
M.3.3	Compliance :		P
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2	Charging voltage, current and temperature		N/A
a)			
M.4.2.2	Single faults in charging circuitry		N/A
b)			
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.2	Leakage current (mA)		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A



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Clause	Requirement	Remarks	Verdict
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m3/s)		N/A
M.8.2.3	Correction factors		N/A
M.8.2.4	Calculation of distance d (mm)		N/A
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A
Annex N	Electrochemical potentials		N/A
Annex P	Safeguards against conductive objects		N/A
Annex Q	Circuits intended for interconnection with building wiring		N/A
Annex R	Limited short circuit test		N/A
Annex S	Tests for resistance to heat and fire		N/A
Annex T	Mechanical strength tests		N/A
Annex U	Mechanical strength of cathode ray tubes (crt) and protection against the effects of implosion		N/A



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5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements						P
	Supply voltage (V) :	12 Vd.c.					—
	Ambient T _{min} (°C) :	23,4					—
	Ambient T _{max} (°C) :	24,8					—
	Tma (°C) :	50					—
Maximum measured temperature T of part/at:		T (°C)					Allowed T _{max} (°C)
PWB surface (near J4)		50,7					90
PWB surface (near U3)		57,9					90
PWB surface (near U1)		53,5					90
PWB surface (near U6)		56,2					90
Plastic enclosure surface (front)		28,0					77*
Plastic enclosure surface (side)		26,3					77*
Supplementary information:							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:							
Note 1: Tma should be considered as directed by applicable requirement							
Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)							
*: Test result of accessible enclosure were adjusted to reflect a value of 25°C, other parts were shifted to the Tma.							



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5.4.1.10.3	TABLE: Ball pressure test of thermoplastics			N/A
Allowed impression diameter (mm) :		≤ 2 mm		—
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)	
--	--	--	--	
Supplementary information:				

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum Clearances/Creepage distance						N/A
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
--	--	--	--	--	--	--	--
Supplementary information:							
Note 1: Only for frequency above 30 kHz							
Note 2: See table 5.4.2.4 if this is based on electric strength test							
Note 3: Provide Material Group							

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage				N/A
	Overvoltage Category (OV):				
	Pollution Degree:				
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured cl (mm)	
--		--	--	--	
Supplementary information:					

5.4.2.4	TABLE: Clearances based on electric strength test			N/A
Test voltage applied between:		Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No
--		--	--	--
Supplementary information:				



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5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements					N/A
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
--	--	--	--	--	--	
Supplementary information:						

5.4.9	TABLE: Electric strength tests			N/A
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:				
--		--	--	--
Basic/supplementary:				
--		--	--	--
Reinforced:				
--		--	--	--
Routine Tests:				
--		--	--	--
Supplementary information:				

B.2.5	TABLE: Input test						P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
12,0 Vd.c.	0,10	--	1,2	2,0	--	--	Normal condition.
Supplementary information:							
Equipment may be have rated current or rated power or both. Both should be measured							



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Annex M	TABLE: Batteries								P
The tests of Annex M are applicable only when appropriate battery data is not available									N/A
Is it possible to install the battery in a reverse polarity position? :							No		P
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	0,002mA	--	0 mA	--	--	--	--	--	--
Max. current during fault condition	100 mA (Sc C4)	--	0 mA (Sc R21)	--	--	--	--	--	--
Test results:									Verdict
- Chemical leaks							No		P
- Explosion of the battery							No		P
- Emission of flame or expulsion of molten metal							No		P
- Electric strength tests of equipment after completion of tests							--		--
Supplementary information:									

Annex M.4	Table: Additional safeguards for equipment containing secondary lithium batteries					N/A
Battery/Cell No.	Test conditions	Measurements			Observation	
		U	I (A)	Temp (C)		
	Normal					
	Abnormal					
	Single fault –SC/OC					
Supplementary Information:						
Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation		



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Battery identification	Charging at T_{lowest} (°C)	Observation	Charging at $T_{highest}$ (°C)	Observation
Supplementary Information:				



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5. Component List

object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾
Plastic enclosure	GRAND PACIFIC PETROCHEMICAL CORP	D-1000S	V-0, 60 °C, min. thickness 2,5mm	--	UL (E88637)
PWB	CHENGDU TIANMU ELECTRONIC EQUIPMENT CO LTD	TM-001	V-0, 115 °C	--	UL (E336407)
Alt.	CHENGDU TIANMU ELECTRONIC EQUIPMENT CO LTD	TM-003	V-0, 90 °C	--	UL (E336407)
Alt.	CHENGDU TIANMU ELECTRONIC EQUIPMENT CO LTD	TM-002, TM-003	V-0, 130 °C	--	UL (E336407)
Button battery	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	ML621*	3V, Max Charging Current: 300mA,	--	UL (MH12210)



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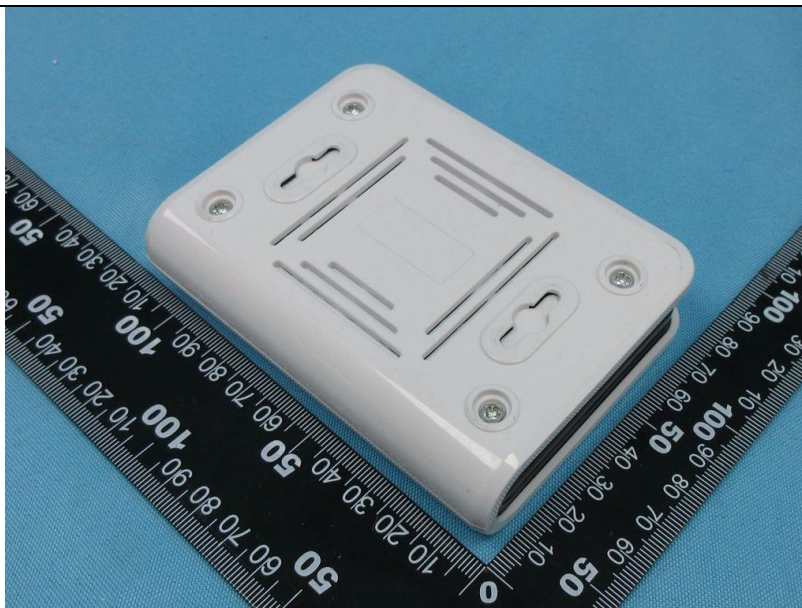
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Test Report

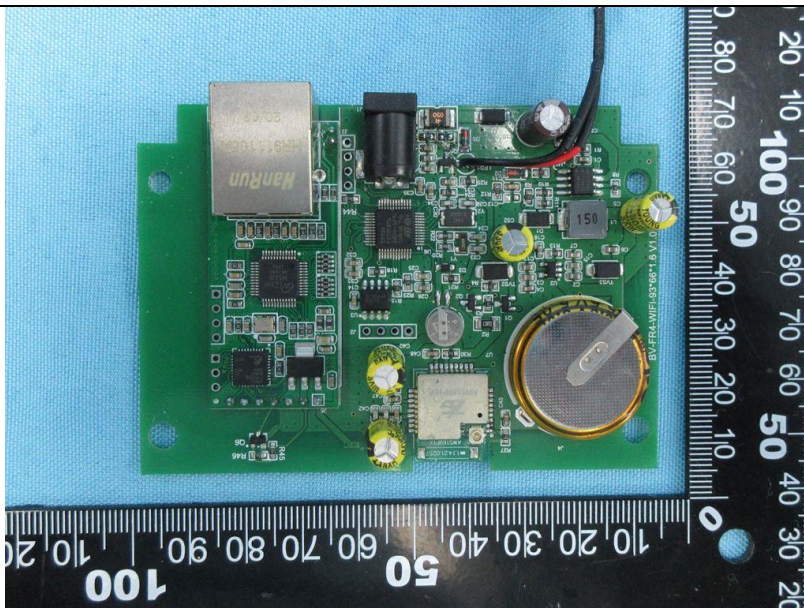
Report No: GZES210301456101

Date: 2021-09-01

Details of: PWB

View:

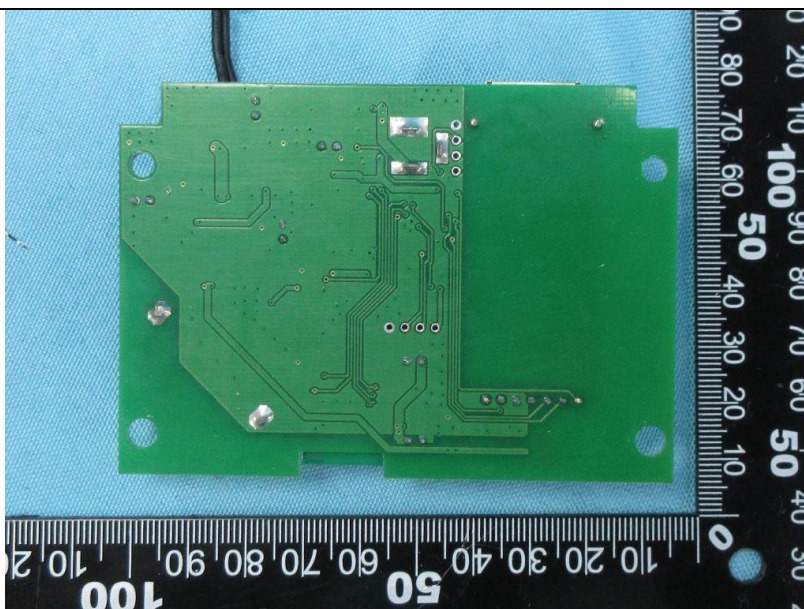
- ☐ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☒ top
- ☐ bottom
- ☐ Internal



Details of: PWB

View:

- ☐ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☒ bottom
- ☐ Internal



SGS-CTI Standards Technical Services Co., Ltd.
Guangzhou Branch

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Test Report

Report No: GZES210301456101

Date: 2021-09-01

NOTES TO THIS TEST REPORT

- The following language(s) of marking(s) and instruction sheets were submitted during the test application:
 - English
 - Throughout this report a comma is used as the decimal separator.

According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.

- The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested. Acceptances of the safety critical components and materials were based on:
 - the certification record(s) and/or test report submitted by the applicant; or
 - component / material tested with the appliance

- - - End of Report - - -



SGS-CT Standards Technical Services Co., Ltd.
Guangzhou Branch, Testing Laboratory

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