



Test Report issued under the responsibility of:



TEST REPORT
IEC 60065
Audio, video and similar electronic apparatus – Safety requirements

Report Number.: REP161380

Date of issue: 2026-05-15

Total number of pages: 48 pages, refer to page 4 for the attachments.

Name of Testing Laboratory preparing the Report.....: Nemko Korea Co., Ltd.
165-51 Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Korea, Republic of

Applicant's name.....: Linkplay Technology Inc.

Address: 3012 Scott Blvd, Santa Clara, CA 95054 United States of America

Test specification:

Standard: IEC 60065:2014

Test procedure: CB Scheme

Non-standard test method.....: N/A

Test Report Form No......: IEC60065N

Test Report Form(s) Originator.....: Intertek Semko AB

Master TRF: Dated 2018-12-20

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Test item description	WiiM Bar
Trade Mark	WiiM
Manufacturer.....	Linkplay Technology Inc. 3012 Scott Blvd, Santa Clara, CA 95054 United States of America
Model/Type reference	BAR001
Ratings	40 W 100-240 V AC 50/60 Hz, Class II

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	Nemko Korea Co., Ltd.
Testing location/ address		165-51 Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Korea, Republic of
Tested by (name, function, signature)		Yong Beom, Kweon, Project handler
		
Approved by (name, function, signature) ..		Soon Ki, Min, Verifier
☐	Testing procedure: CTF Stage 1:	N/A
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ..		
☐	Testing procedure: CTF Stage 2:	N/A
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
☐	Testing procedure: CTF Stage 3:	N/A
☐	Testing procedure: CTF Stage 4:	N/A
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Photos (8 pages)

Attachment 2: Instruction / Installation Manual (1 page)

Attachment 3: Malaysia national differences (2 pages) ¹⁾

Attachment 4: CB certificate for WiiM Voice Remote 2 Lite, WiiM Bar Remote (1 page)

¹⁾ Malaysia differences is attached for additional information.**Summary of testing:**

Altitudes Limits (Clause 1.1.3)	This apparatus is intended to be operated at altitudes of up to 5 000 m (54.0 kPa).
Components and subassemblies (Clause 3.4)	The components that comply with IEC 62368-1 is acceptable as part of equipment covered by this standard without further evaluation.
Instructions (Clause 5.5)	Instructions / user's manual are in English. The information shall be given in a language acceptable to the country where the apparatus is intended to be sold.
Clearances distances (Clause 13)	This apparatus is intended to be operated at altitudes of up to 5 000 m (54.0 kPa), so the clearance is multiplied by the altitude correction factor (1.48), specified in table A.2 of IEC 60664-1: 2007.
Plug / External flexible cords (Clause 15 and 16)	This test report does not cover the mains cord set except for listed type in list of critical components. This apparatus must be supplied with an approved mains plug/cord suitable for the countries where the requirement will be sold.
Wall or ceiling mounting means (Clause 19.7)	Manufacturer specifies a specific wall mount, the apparatus is provided with two screw holes which facilitate attaching a wall bracket to the apparatus, also provided information for screw size (M4), number of screws (2 pcs) and wall mount bracket in the user instruction manual. Therefore, relevant test is performed according to clause 19.7.2, Test 1 and Test 3.

Summary of testing: – continued	
Tests performed (name of test and test clause): 5 MARKING AND INSTRUCTIONS 7 HEATING UNDER NORMAL OPERATING CONDITIONS 8 CONSTRUCTIONAL REQUIREMENTS WITH REGARD TO THE PROTECTION AGAINST ELECTRIC SHOCK 9 ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITIONS 10 INSULATION REQUIREMENTS 11 FAULT CONDITIONS 12 MECHNIAL STRENGTH 13 CLEARANCES AND CREEPAGE DISTANCES 14 COMPONENTS 17 ELECTRICAL CONNECTIONS AND MECHANICAL FIXINGS 19 STABILITY AND MECHANICAL HAZARDS	Testing location: Refer to page 3
Summary of compliance with National Differences (List of countries addressed): None	
☒ The product fulfils the requirements of IEC 60065:2014	

Copy of marking plate:

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.



Calibration	All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Further information about traceability will be given on request.
Measurement uncertainty	Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EA-4/02 (Dec. 1999), IEC Guide 115:2007 and other relevant internal Nemko-procedures. Further information about measurement uncertainties will be given on request.
Evaluation of results	If not explicitly stated otherwise in the standard, the test is passed if the measured value is equal to or below (above) the limit line, regardless of the measurement uncertainty. If the measured value is above (below) the limit line, the test is not passed - ref IEC Guide 115:2007. The instrumentation accuracy is within limits agreed by IECEE-CTL.

Test item particulars : WiiM Bar	
Classification of installation and use : Class II	
Supply Connection : Detachable cord with appliance inlet :	
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 : 2026-01-26 Date (s) of performance of tests : 2026-01-26 to 2026-04-10	
General remarks:	
"(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 ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60065:	
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) : BUMJIN ELECTRONICS VINA CO., LTD Lot CN-04, Dong Mai Industrial Park, Dong Mai Ward, Quang Ninh Province, Viet Nam	

General product information:

The apparatus under test is WiiM Bar of insulation Class II.

The apparatus has amplifier circuits with built-in type speakers (Tweeter – Center, R and L, Full Range – R and L, Mid-Woofer – Center, R and L), Bluetooth module, Wi-fi module, several signal input/output (HDMI(in), OPTICAL, Line, LAN and USB) terminals – (See also photos).

The equipment is intended to be used with WiiM Voice Remote 2 Lite, WiiM Bar Remote (for Rechargeable Li-ion Battery) is CB certified component by Intertek as follows:

Type, WVR003, WVR004 is Certified by Intertek(Certif. No.: SG ITS-40753M1, Report No.: 250819026SZN-001).

This report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
3	GENERAL REQUIREMENTS		
	Safety class of the apparatus	Class II apparatus.	P
4	GENERAL TEST CONDITIONS		
4.1.4	Ventilation instructions require the use of the test box	Tests are carried out on the open space according to customer information.	N/A
5	MARKING AND INSTRUCTIONS		
5.1	General requirements		P
	Comprehensible and easily discernible	On bottom side of the enclosure.	P
	Permanent durability against water and petroleum spirit	Tested with water / petroleum spirit.	P
5.2	Identification and supply rating		P
	a) Identification, maker	Trade mark: WiiM	P
	b) Model number or type reference	Model no. See copy of marking plate.	P
	c) Class II symbol or Class II with functional earth symbol if applicable	Class II symbol according to IEC 60417-5172 is applied.	P
	d) Nature of supply	'AC' marked.	N/A
	e) Rated supply voltage	100-240 V AC	P
	f) Mains frequency if safety dependant	50/60 Hz	P
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use, on apparatus or in instruction manual	The apparatus is connection to an a.c. mains supply.	N/A
	Measured current or power consumption		N/A
	Deviation % (max 10%)		N/A
	h) Rated current or power consumption for apparatus intended for connection to an a.c. mains supply.:	40 W (See copy of marking plate)	P
	Measured current or power consumption	(See appended table 7.1)	P
	Measured current or power consumption for Television set	No Television set	N/A
	Deviation % (max 10%)	Not exceed the marked value.	P
	Symbols explained in the user manual		P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
5.3	Terminals		N/A
	a) Earth terminal	Class II apparatus	N/A
	b) Hazardous live terminals	No live parts accessible	N/A
	c) Markings on supply output terminals	No mains socket outlet for providing power to other apparatus except for USB terminal; "DC 5 V 2 A Max" in user manual.	N/A
5.4	Caution marking		P
	a) Use of triangle with exclamation mark	Correct symbol applied: - In circuit diagram. Further; no incorrect use of this symbol is found.	P
	b) Marking on loudspeaker grille, IEC 60417-5036	Not hazardous live part by the removal of a loudspeaker grille	N/A
	c) User-replaceable coin / button cell battery marking	No user-replaceable coin / button cell battery	N/A
5.5	Instructions		P
5.5.1	Safety relevant information	User information in the following language: English. See comments in Summary of Testing.	P
5.5.2	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.	Adequate instructions supplied.	P
	b) Hazardous live terminals, instructions for wiring	No live terminal.	N/A
	c) Instructions for replacing lithium battery	No replacing lithium battery. Only rechargeable battery used in the remote controller.	N/A
	d) Class I earth connection warning	Class II apparatus	N/A
	e) Instructions for multimedia system connection	Adequate instructions supplied.	P
	f) Special stability warning for attachment of the apparatus to the floor/wall	No such equipment.	N/A
	g) Warning: battery exposure to heat	Adequate warning provided in user manual.	P
	h) Warning: protective film on CRT face	No CRT.	N/A
	i) Warning: Non-floor standing TV >7kg	Mass: Max. 4.94 kg	N/A
	j) Warning: User replaceable coin / button cell battery	No coin / button cell battery. Only rechargeable battery used in the remote controller.	N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.3	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings	The appliance inlet is used as the disconnecting device. Adequate information included in User manual.	P
	c) Instructions for permanently connected equipment	Not permanent connected equipment.	N/A
	Marking, signal lamps or similar for completely disconnection from the mains	Information provided in user manual.	P

6	HAZARDOUS RADIATION		
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)	No ionizing radiation.	N/A
	Ionizing radiation under fault condition		N/A
6.2	Laser radiation, emission limits to IEC 60825-1:2007	No laser radiation.	N/A
	Emission limits under fault conditions		N/A
6.3	Light emitting diodes (LEDs) according to IEC 62471	Not appearing in user accessible areas.	P

7	HEATING UNDER NORMAL OPERATING CONDITIONS		
7.1	General		P
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	No fuse links operate during normal operating operation. (See appended table 7.1)	P
7.1.2	Temperature rise of accessible parts	(See appended table 7.1)	P
7.1.3	Temperature rise of parts providing electrical insulation	(See appended table 7.1)	P
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier	(See appended table 7.1)	P
7.1.5	Temperature rise of windings	(See appended table 7.1)	P
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4	(See appended table 7.1)	P
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current > 0,2 A at least 150 °C	Bobbin for T801CS transformer / Base for LX801S are made of Phenolic. See appended table 7.2 for J814 AC connector is made of PA66.	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
8	CONSTRUCTIONAL REQUIREMENTS WITH REGARD TO THE PROTECTION AGAINST ELECTRIC SHOCK		
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	Considered.	P
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	No changing voltage setting device.	N/A
8.3	Insulation of hazardous live parts not provided by hygroscopic material	No hygroscopic materials used.	N/A
8.4	No risk of electric shock from accessible parts or from parts rendered accessible following the removal of a cover which can be removed by hand	No cover removable by hand.	N/A
8.5	Class I apparatus		N/A
	Basic insulation between hazardous live parts and earthed accessible parts	Class II apparatus	N/A
	Resistors bridging basic insulation complying with 14.2 a)		N/A
	Capacitors bridging basic insulation complying with 14.3.2 a)		N/A
	Protective earthing terminal		N/A
8.6	Class II apparatus		P
	a) Basic and supplementary insulation between hazardous live parts and accessible parts	Double insulation complies with requirements specified in clause 10 and 13.	P
	b) Reinforced insulation between hazardous live parts and accessible parts	Reinforced insulation complies with requirements specified in clause 10 and 13.	P
8.7	Components bridging insulation		P
	Basic insulation bridged by components complying with 14.4.5.3	No such components.	N/A
	Components bridging basic, supplementary, double or reinforced insulation complying with 14.2 a) or 14.4	Transformers has reinforced insulation complies with clause 14.4.	P
	Basic and supplementary insulation each being bridged by a capacitor or RC-unit complying with 14.3.2 a)	No such capacitors.	N/A
	Double or reinforced insulation being bridged with 2 capacitors or RC-units in series complying with 14.3.2 a)	No such series capacitors.	N/A
	Double or reinforced insulation being bridged with a single capacitor or RC-unit complying with 14.3.2 b)	CY801S and CY802S capacitors, bridging reinforced insulation in the apparatus.	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
8.8	Insulation thickness and thin sheet materials		P
	Basic or supplementary insulation > 0,4 mm (mm) :		N/A
	Reinforced insulation > 0,4 mm (mm):	a. Transformer bobbin ref. 14.4 b. Optocoupler inner insulation, ref. 14.12	P
	Thin sheet material used inside the equipment	Thin sheet insulation (tape) in T801CS transformer.	P
	Basic or supplementary insulation, at least two layers, each meeting 10.4		N/A
	Basic or supplementary insulation, three layers any two of which meet 10.4		N/A
	Reinforced insulation, two layers each of which meet 10.4	Insulation tape used in T801CS transformer between primary and secondary. (see appended table 14.4.4)	P
	Reinforced insulation, three layers any two which meet 10.4		N/A
8.9	Adequate insulation between internal hazardous live conductors and accessible parts, or between internal hazardous live parts and conductors connected to accessible parts	Primary wirings are double insulated. Secondary wirings are single insulated but safely anchored.	P
8.10	Double insulation between accessible parts and conductors connected to the mains	Double insulated according to 8.9 and 10.4.	N/A
	Double insulation between conductors connected to accessible parts and parts connected to the mains	Secondary wirings are single insulated but safely anchored.	N/A
8.11	Detaching of wires		P
	No undue reduction of creepage or clearance distances if wires become detached	Inlet connected wires are hooked-in before soldered.	P
	Vibration test carried out:	Assessed to be satisfactory constructed.	N/A
8.12	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)	Adequately fastened.	P
8.13	Adequate fastening of covers (push/pull test 50 N for 10 s)	Covers adequately fastened with screws.	P
8.14	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges	Wires safely anchored away from parts with high temp.	P
8.15	Only special supply equipment can be used	No special supply apparatus.	N/A
8.16	Insulated winding wire without additional interleaved insulation	Approved triple insulated wire used in T801CS transformer.	N/A
8.17	Endurance test as required by 8.16	Test not required.	N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
8.18	Disconnection from the mains		P
	Disconnect device	Mains plug is used as the disconnecting device.	P
	All-pole switch or circuit breaker with >3mm contact separation	No all-pole switch or circuit breaker.	N/A
	Mains switch ON indication	No mains switch.	N/A
8.19	Switch not fitted in the mains cord	No switch in mains cord.	P
8.20	Bridging components comply with clause 14	No such components.	N/A
8.21	Non-separable thin sheet material	No such thin sheet material.	N/A

9	ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITION		
9.1	Testing on the outside		P
9.1.1	General		P
9.1.1.1	Requirements		P
	Accessible parts shall not be hazardous live		P
	Inaccessible terminals are not accessible or comply with relevant requirements		P
	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation.....:	No voltages > 1 000 V a.c. or > 1 500 V d.c.	N/A
9.1.1.2	Determination of hazardous live parts		P
	a) Open circuit voltages	Mains input voltage > 35 V a.c., see below.	P
	b) Touch current measured from terminal devices using the network in annex D	U1: Max. 0.28 V peak U2: Max. 0.15 V peak (Tested at 264 V 60 Hz)	P
	c) Discharge not exceeding 45 µC	No part or contact of a terminal with stored voltages between 60 V d.c - 15 kV d.c.	N/A
	d) Energy of discharge not exceeding 350 mJ	No part or contact of a terminal with stored voltages exceeding 15 kV d.c.	N/A
9.1.1.3	Test with test finger and test probe	No access for the test finger	P
9.1.2	No hazardous live shafts of knobs, handles or levers	No live shaft, handles or levers	N/A
9.1.3	Ventilation holes and other holes tested by means of 4 mm x 100 mm test pin	No ventilation holes in top side of the cover.	N/A
9.1.4	Terminal devices tested with 1 mm x 20 mm test pin (10 N); test probe D of IEC 61032	Does not reach hazardous live parts	P
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032	Does not reach hazardous live parts	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
9.1.5	Pre-set controls tested with 2.5 mm x 100 mm test pin (10 N); test probe C of IEC 61032	No pre-set controls	N/A
9.1.6	Withdrawal of the mains plug		P
	No shock hazard due to stored charge after 2 s ...:	0 V d.c. after 2 s.	P
	Bleeder resistor(s) comply with 14.2 or no shock hazard when open circuited	Bleeder resistors provided (RX801S, RX802S and RX803S) See clause 14.2 b), and appended table, list of critical components.	N/A
	If C is not greater than 0,1 µF no test needed	> 0.1 µF	N/A
9.1.7	Resistance to external force		P
	a) Test probe 11 of IEC 61032 for 10 s (50 N)	Test with test finger result in no hazard.	P
	b) Test hook of fig. 4 for 10 s (20 N)	Test with test hook results in no hazard.	P
	c) 30 mm diameter test tool for 5 s (100 or 250 N)	Test with test tool results in no hazard.	P
9.2	No hazard after removing a cover by hand	No cover removable by hand.	N/A

10	INSULATION REQUIREMENTS		
10.2	Insulation resistance (MΩ) at least 2 MΩ min. after surge test for basic and 4 MΩ min. for reinforced insulation	No terminals.	N/A
10.3	Humidity treatment 48 h or 120 h	Performed for 120 h at temp. 40 °C and humidity 93 %.	P
10.4	Insulation resistance and dielectric strength		P
	Between parts of different polarity directly connected to the mains	(See appended table 10.4)	P
	Between parts separated by BASIC or SUPPLEMENTARY insulation	Class II apparatus.	N/A
	Between parts separated by REINFORCED insulation	(See appended table 10.4)	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
11	FAULT CONDITIONS		
11.1	No shock hazard under fault condition	No electric shock hazard under fault conditions.	P
11.2	Heating		P
11.2.1	Requirements		P
	No danger of fire to the surroundings	No danger of fire to the surroundings of the apparatus.	P
	Safety not impaired by abnormal heat	Not impaired by abnormal heat developed in the apparatus.	P
	Flames extinguish within 10 seconds	No flames.	P
	No hazard from softening solder	No softening of solder.	P
	Soldered terminations not used as protective mechanism	No soldered terminations.	P
11.2.2	Measurement of temperature rises	(See appended table 11)	P
11.2.3	Temperature rise of accessible parts	(See appended table 11)	P
11.2.4	Temperature rise of parts, other than windings and printed boards, providing electrical insulation	(See appended table 11)	P
11.2.5	Temperature rise of parts acting as a support or mechanical barrier	Temperature rises are within the limits.	P
11.2.6	Temperature rise of windings	(See appended table 11)	P
11.2.7	Printed boards		P
	Temperature rise does not exceed the limits of table 3 or exceed the limits of table 3 by max. 100 K for max. 5 min	No exceeding the limits of Table 3. See appended table 11, and certified PSU test report.	P
	a) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm ²	No area where temperature exceeds 100 K above limits.	N/A
	b) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm ² for a maximum of 5 min	No area where temperature exceeds 300 K above limits.	N/A
	Meets all the special conditions if conductors on printed circuit boards are interrupted	No conductors are interrupted / peeled / loosened during fault conditions.	N/A
	Class I protective earthing maintained	Class II equipment.	N/A
11.2.8	Temperature rise of parts not subject to the limits of 11.2.2 to 11.2.7 shall not exceed the limits in table 3, item e), "Fault conditions".	(See appended table 11)	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
12	MECHANICAL STRENGTH		
12.1	Complete apparatus		P
12.1.1	The apparatus have adequate mechanical strength		P
12.1.2	Bump test where mass >7 kg	Mass: Max. 4.94 kg	N/A
12.1.3	Vibration test	External enclosure is plastic material.	N/A
12.1.4	Impact hammer test	No damage in the sense of this standard.	P
	Steel ball test	No damage in the sense of this standard.	P
12.1.5	Drop test for portable apparatus where mass ≤ 7 kg	No portable apparatus.	N/A
12.1.6	Thermoplastic enclosures stress relief test	No risk of shrinkage or distortion on enclosures.	P
12.2	Fixing of knobs, push buttons, keys and levers	Normal use will not impair the protection against electric shock.	P
12.3	Remote controls with hazardous live parts	No remote control containing hazardous live parts.	N/A
12.4	Drawers (pull test 50 N, 10 s)	No drawers.	N/A
12.5	Antenna coaxial sockets providing isolation	No antenna socket which isolate hazardous live parts from accessible parts.	N/A
12.6	Telescoping or rod antennas		N/A
12.6.1	6,0 mm diameter end	No telescoping or rod antennas.	N/A
	Prevented from falling into the apparatus		N/A
12.6.2	Physical securement, removal prevented		N/A
12.7	Apparatus containing coin / button cell batteries		N/A
12.7.2	Reduced possibility for children to remove battery	Not used for coin / button cell battery, only rechargeable battery used in the remote controller.	N/A
12.7.3	Tests		N/A
12.7.3.2	Stress relief test		N/A
12.7.3.3	Battery replacement test		N/A
12.7.3.4	Drop test		N/A
12.7.3.5	Impact test		N/A
12.7.3.6	Crush test		N/A
12.7.4	Battery not accessible; or not removable		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
13	CLEARANCES AND CREEPAGE DISTANCES		
13.1	Clearances in accordance with 13.3	See 13.3	P
	Creepage distances in accordance with 13.4	See 13.4	P
13.2	Determination of working voltage	Conventional switching transformer used. Upper rated supply voltage (240 V) applied in determining the working voltage.	P
13.3	Clearances		P
13.3.1	Comply with 13.3 or Annex J	Clearance distances are in compliance with table 8, 9, 10. (See appended table 13)	P
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9	(See appended table 13)	P
13.3.3	Circuits not conductively connected to the mains comply with table 10	No secondary hazardous voltage.	N/A
13.3.4	Measurement of transient voltages	Not used.	N/A
13.4	Creepage distances not less than appropriate table 11 minimum values	CTI > 100 (See appended table 13)	P
13.5	Printed boards		P
13.5.1	Conductors complying with pull-of and peel strength requirements, one of which may be conductively connected to the mains, as in fig. 10	No such PCB used.	N/A
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)	No type B coated printed circuit boards.	N/A
13.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4	No uncemented joints.	N/A
	Conductive parts along reliably cemented joints comply with 8.8		N/A
	Temperature cycle test and dielectric strength test		N/A
	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety		N/A
13.7	Enclosed, enveloped or hermetically sealed parts not conductively connected to the mains, clearances and creepage distances as in table 12	No such part used.	N/A
13.8	Parts filled with insulating compound, meeting the requirements of 8.8	Approved optocoupler. See clause 14.12, and appended table, list of critical components.	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
14	COMPONENTS		
14.1	Flammability according to IEC 60695-11-10 or annex G, or 20.2.5	See clause 20.2.5.	P
14.2	Resistors		P
	Resistors separately approved		N/A
	a) Resistors between hazardous live parts and accessible metal parts	No such resistors.	N/A
	b) Resistors, other than between hazardous live parts and accessible parts	Certified three (3) bleeder resistors (RX801S, RX802S and RX803S) connected in series between Line and Neutral, located after mains fuse. See appended table, list of critical components.	P
14.3	Capacitors and RC units		P
	Capacitors separately approved :	Yes, see below.	P
14.3.1	Damp heat test duration 21 days	Capacitors are certified according to IEC 60384-14.	N/A
14.3.2	Y capacitors tested to IEC 60384-14:2005	CY801S and CY802S capacitors certified according to IEC 60384-14.	P
14.3.3	X capacitors tested to IEC 60384-14:2005	CX801S capacitor certified according to IEC 60384-14.	P
14.3.4	Capacitors operating at mains frequency but not connected to the mains: tests for X2	No such capacitors.	N/A
14.3.6	Capacitors with volume exceeding 1750 mm ³ , where short-circuit current exceeds 0,2 A: compliance with IEC 60384-1, 4.38 category B or better	Several capacitors, volume exceeding 1 750 mm ³ , but complies due to mains fuse open by short circuit of the relate capacitors.	N/A
	Capacitors with volume exceeding 1750 mm ³ , mounted closer to a potential ignition source than table 13 permits: compliance with IEC 60384-1, 4.38 category B or better	a. CX801S capacitor certified according to IEC 60384-14. b. Several capacitors, volume exceeding 1 750 mm ³ , but metal cases. c. Capacitors are flame tested, classified to category B.	P
14.4	Inductors and windings		P
14.4.1	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.2.5	Transformer evaluated according to 14.4.3, 14.4.4 and 14.4.5.	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Transformers and inductors separately approved :	No	N/A
14.4.2	Transformers and inductors marked with manufacturer's name and type	Adequate marking applied. Mfr, ID and type no.	P
14.4.3	General	Isolating transformer.	P
	Insulation material complies with clause 20.2.5	Considered. The insulation material of isolating transf. complies with flammability category of Table 21.	P
14.4.4	Constructional requirements		P
14.4.4.1	Clearances and creepage distances comply with clause 13	See appended table 14.4.4.	P
14.4.4.2	Transformers meet the constructional requirements	See appended table 14.4.4.	P
14.4.5	Separation between windings		P
14.4.5.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation).....:	Double or reinforced insulation between pr. and sec. windings according to clause 8.8. See appended table 14.4.4.	P
	Coil formers and partition walls > 0,4 mm	The bobbin fulfils the requirement of reinforced insulation; bobbin thickness > 0.4 mm.	P
14.4.5.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions are met	Transformer is evaluate with class II construction	N/A
14.4.5.3	Separating transformers with at least basic insulation		N/A
14.4.6	Insulation between hazardous live parts and accessible parts		P
14.4.6.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)	Double or reinforced insulation between hazardous live windings and accessible conductive parts.	P
	Coil formers and partition walls > 0,4 mm	> 0.4 mm	P
14.4.6.2	Class I transformers have adequate insulation between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal	Winding of Class II construction used.	N/A
	Winding wires connected to protective earth have adequate current-carrying capacity		N/A
14.5	High voltage components and assemblies (U > 4kV peak)		N/A
14.5.1	Component meets category V-1 of IEC 60695-11-10	No high-voltage components.	N/A
14.5.2	High voltage transformers and multipliers		N/A
14.5.3	High voltage assemblies and other parts		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
14.6	Protective devices		P
14.6.1	Protective devices used within their ratings	Fuse, FP801S	P
	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened	Certified fuses used.	P
14.6.2	Thermal releases		N/A
14.6.2.1	Comply with 14.6.2.2, 14.6.2.3 or 14.6.2.4		N/A
14.6.2.2	a) Thermal cut-outs separately approved	No thermal cut-outs.	N/A
	b) Thermal cut-outs tested as part of the submission		N/A
14.6.2.3	a) Thermal links separately approved	No thermal links.	N/A
	b) Thermal links tested as part of the submission		N/A
14.6.2.4	Thermal devices re-settable by soldering	No thermal device.	N/A
14.6.3	Fuses and fuse holders		P
14.6.3.1	Fuse-links in the mains circuit according to IEC 60127	Fuse is approved according to IEC 60127.	P
14.6.3.2	Correct marking of fuse-links adjacent to holder:	Marked on PCB adjacent to fuse. FP801S: T4A H 250 V	P
14.6.3.3	Not possible to connect fuses in parallel	No possible to connect fuses in parallel.	P
14.6.3.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool:	No replacement of fuse possible by hand.	P
14.6.4	PTC thermistors comply with IEC 60730-1:2010	No PTC's thermistors.	N/A
	PTC devices (>15 W) category V-1 or better		N/A
14.6.5	Circuit protectors have adequate breaking capacity and their position is correctly marked	Only standard fuses used.	N/A
14.7	Switches		N/A
14.7.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - For CRT TV's, make and break speed independent of speed of actuation - V-0 or compliance with G.1.1	No switches.	N/A
14.7.1 b)	Tested in the apparatus		N/A
	Switch controlling > 0.2A with open contact voltage > 35 V (peak) / 24 V dc complying with 14.6.3, 14.6.4 and V-0 or G.1.1		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Switch controlling > 0.2A with open contact voltage < 35 V (peak) / 24 V dc complying with 14.6.3 and V-0 or G.1.1		N/A
	Switch controlling ≤ 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.4 and V-0 or G.1.1		N/A
14.7.2	Switch tested to 14.7.1 b) checked according to IEC 61058-1 clause 13.1 and 10 000 operation test		N/A
14.7.3	Switch tested to 14.6.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining excessive temperatures in use		N/A
14.7.4	Switch tested to 14.6.1 b) has adequate dielectric strength		N/A
14.7.5	Mains switch controlling mains socket outlets additional tests to IEC 61058-1		N/A
14.8	Safety interlocks according to 2.8 of IEC 60950-1	No safety interlocks.	N/A
14.9	Voltage setting device and the like are not likely to be changed accidentally	No voltage setting devices.	N/A
14.10	Motors		N/A
14.10.1	a) Endurance test on motors	No motors.	N/A
	b) Motor start test		N/A
	Dielectric strength test		N/A
14.10.2	Not adversely affected by oil or grease etc.		N/A
14.10.3	Protection against moving parts		N/A
14.10.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950-1, Annex B		N/A
14.11	Batteries		P
14.11.1	Comply with IEC 62133 if applicable	Certificated rechargeable remote controller is certified according to IEC 62368-1.	P
	Batteries mounted with no risk of accumulation of flammable gases		P
14.11.2	No possibility of recharging user replaceable non-rechargeable batteries	Remote controller used non-replaced battery.	N/A
14.11.3	Recharging currents and times within manufacturers limits	Certificated rechargeable remote controller is certified according to IEC 62368-1.	P
	Lithium batteries discharge and reverse currents within the manufacturers limits		P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
14.11.4	Battery mould stress relief	Certificated rechargeable remote controller is certified according to IEC 62368-1.	P
14.11.5	Battery drop test	Certificated rechargeable remote controller is certified according to IEC 62368-1.	P
14.12	Optocouplers		P
	Comply with constructional requirements of clause 8	Approved optocouplers.	P
	External clearances and creepage comply with 13.1		P
	Compound completely filling the casing or internal clearances and creepage comply with 13.1.....:	See below;	P
	a) Complies with 13.6 (jointed insulation) and N.3.2		N/A
	b) Complies with IEC 60747-5-5:2007	V _{ini,a} = min. 8 000 V peak V _{ini,b} = min. 8 000 V peak	P
	c) Complies with 13.8		P
14.13	Surge suppression varistors		P
	Comply with IEC 61051-2	Varistor, VX801S comply with IEC 61051-2 (across the mains). See appended table, list of critical components.	P
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus	No such application.	N/A
	GDT bridging basic insulation complies with electric strength and distance requirements	No GDT bridging basic insulation.	N/A
	Complies with the climatic, voltage, current pulse, fire hazard and thermal stress requirements of 14.13	Certified varistor used.	P

15	TERMINALS		
15.1	Plugs and sockets		P
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	Approved cord set and appliance inlet provided. (See appended table 14)	P
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets	No mains socket-outlets.	N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets	No mains socket-outlets.	N/A
15.1.2	Design of connectors other than for mains power	Standard connectors provided for OPTICAL, LAN, Line, HDMI and USB used.	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Design of sockets with symbol of 5.3 b) design	No sockets indicated with the symbol.	N/A
15.1.3	Design of terminals and connectors used in output circuits of supply apparatus	Not adaptors used.	N/A
15.2	Provision for protective earthing		N/A
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	Class II apparatus.	N/A
	Protective earth conductors correctly fixed and coloured		N/A
	Separate protective earth terminal near mains terminal and comply with 15.3		N/A
	Protective earth terminal resistant to corrosion		N/A
	Earth resistance test: $< 0,1 \Omega$ at 25 A		N/A
15.3	Terminals for external flexible cords and for permanent connection to the mains supply		N/A
15.3.1	Adequate terminals for connection of permanent wiring	Appliance inlet applied.	N/A
15.3.2	Reliable connection of non-detachable cords	Appliance inlet applied.	N/A
	Not soldered to conductors of a printed circuit board		N/A
	Adequate clearances and creepage distances between connections should a wire break away		N/A
	Wire secured by additional means to the conductor		N/A
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar	Appliance inlet applied.	N/A
15.3.4	Conductors adequately fixed (two independent fixings)	Appliance inlet applied.	N/A
15.3.5	Terminals allow connection of conductors having appropriate cross-sectional area	Appliance inlet applied.	N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16	Appliance inlet applied.	N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure	Appliance inlet applied.	N/A
	Terminals designed to avoid conductor slipping out when tightened		N/A
	Terminals adequately fixed when tightened or loosened (no loosening, wiring not stressed, distances not reduced)		N/A
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic	Appliance inlet applied.	N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
15.3.9	Termination of non-detachable cords: wires terminated near to each other	Appliance inlet applied.	N/A
	Terminals located and shielded: test with 8 mm strand		N/A
15.4	Devices forming a part of the mains plug		N/A
15.4.1	No undue strain on mains socket-outlets	No devices forming a part of the mains plug.	N/A
15.4.2	Device complies with standard for dimensions of mains plugs		N/A
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N/A

16	EXTERNAL FLEXIBLE CORDS		
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords	Approved sheathed PVC used. See appended table, list of critical components.	P
	Non-detachable cords for Class I have green/yellow core for protective earth	Class II apparatus.	N/A
16.2	Mains cords conductors have adequate cross-sectional area for rated current consumption of the equipment	The cord is min. 0.75 mm ² within the current rating. (See appended table, list of critical components)	P
16.3	Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages comply with a) and b)	No interconnecting cables.	N/A
16.4	Flexible cords used for connection between equipment have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions	No interconnecting cables.	N/A
16.5	Adequate strain relief on external flexible cords	Appliance inlet provided.	N/A
	Not possible to push cord back into equipment		N/A
	Strain relief device unlikely to damage flexible cord		N/A
	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor		N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use	Appliance inlet provided.	N/A
16.7	Transportable apparatus have appliance inlet according to IEC 60320-1 or means of stowage to protect the cord	Not transportable musical instruments and amplifiers.	N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict

17	ELECTRICAL CONNECTIONS AND MECHANICAL FIXINGS		
17.1	Table 20 torque test metal thread, 5 times		N/A
	Table 20 torque test non-metallic thread, 10 times ...	(see appended table 17.1)	P
17.2	Correct introduction into female threads in non-metallic material	Correct introduction of the screws into female threads.	P
17.3	Cover fixing screws captive or no hazard when replaced by a screw whose length is 10 times its diameter	Tested with screw with length 10 times the diameter.	P
17.4	No loosening of conductive parts carrying a current > 0,2 A	Loosening is sufficiently prevented.	P
17.5	Contact pressure not transmitted through insulating material other than ceramic for connections carrying a current > 0,2 A	No contact pressure transmitted through insulating material.	P
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder	No screw terminals.	N/A
17.7	Cover fixing devices have adequate strength and their positioning is unambiguous	No cover fixing devices other than screws.	N/A
17.8	Fixing means for detachable legs or stands provided	No detachable legs or stands provided.	N/A
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected	Connections complies, checked by inspection.	P

18	MECHANICAL STRENGTH OF PICTURE TUBES AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		
18.1	Comply with IEC 61965 or 18.2	No picture tube used.	N/A
18.2	Non-intrinsically protected tubes		N/A

19	STABILITY AND MECHANICAL HAZARDS		
19.1	Apparatus > 7 kg have adequate stability or is required to be fastened in place and provided with the warning of 5.5.2 f)	Mass: Max. 4.94 kg	N/A
19.2	Test at 10° to the horizontal	Not applicable.	N/A
19.3	Vertical force test 100 N applied downwards	Not applicable.	N/A
19.4	Horizontal force test, 100 N or 13 % of weight, applied horizontally to point of least stability	Not applicable.	N/A
19.5	Edges or corners not hazardous	There is no hazards edges or corners when the apparatus is operating in normal position.	P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
19.6	Mechanical strength of glass		N/A
19.6.1	Glass surfaces (exc.laminated) with an area exceeding 0,1 m ² or major dimension > 450 mm, pass the test of 12.1.4	No glass surface.	N/A
19.6.2	Fragmentation test		N/A
19.7	Wall or ceiling mounting means		P
19.7.1 - 19.7.3	Not dislodged and remain mechanically intact after test according to 19.7.2 Test 1, Test 2 or Test 3	The wall mount bracket, screw size (M4) and number of screw (2) are used for Installation. Not dislodged and remain mechanically intact after test according to Test 1 and Test 3. <Test 1 condition> <u>Weight of apparatus:</u> 4.94 kg <u>Additional force (Three times of apparatus):</u> 146 N Test was performed by applying downwards through the centre of gravity of the apparatus (4.94 kg for apparatus + 146 N for additional weight) and applying horizontal force of 50 N. Test duration: 60 s <Test 3 condition> <u>Screw diameter:</u> 3.9 mm <u>Screws into metal:</u> 5 times <u>Test torque:</u> 1.2 Nm After the test, no deterioration impairing safety in the sense of this standard. See summary of testing and attachment for installation manual.	P

20	RESISTANCE TO FIRE		
20.1	Start and spread of fire is prevented		P
20.2	Electrical components and mechanical parts		P
20.2.1	a) Exemption for components contained in an enclosure of material V-0 to IEC 60695-11-10 with openings not exceeding 1 mm in width		P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Exemption for small components	PCB is of flammability class V-0, and exception is made for small components.	P
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5	Electrical components comply with flammability requirements in clause 14.	P
20.2.3	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, comply with G.2	No wires working at voltage > 4 kV.	N/A
20.2.4	Material of printed circuit boards on which the available power exceeds 15 W at a voltage between 50 V and 400 V (peak) a.c. or d.c. meets V-1 or better to IEC 60695-11-10, unless used in a fire enclosure	All PCB are of base material with flammability category V-0 (UL approved), See list of critical components.	P
	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60695-11-10.	No voltage > 400 V (peak)	N/A
20.2.5	Components and parts not covered by 20.2.2, 20.2.3 and 20.2.4 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21	Transformer bobbin and line filter bobbin are complies with the relevant flammability category in Table 21.	P
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N/A
	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure	< 4 kV	N/A
20.3	Fire enclosure		N/A
20.3.1	Potential ignition sources with open circuit voltage > 4 kV (peak) a.c. or d.c. contained in a fire enclosure to V-1	No voltage > 4 kV (peak)	N/A
20.3.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	No internal fire enclosures.	N/A
20.3.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure	No internal fire enclosures.	N/A

ANNEX A	ADDITIONAL REQUIREMENTS FOR APPARATUS WITH PROTECTION AGAINST SPLASHING WATER	
A.5	Marking and instructions	N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
A.5.1	A.5.2 i) Marked with at least IPX4 (IEC 60529) 5.5.2 a) does not apply	Not intended for outdoor use.	N/A
A.10	Insulation requirements		N/A
A.10.3	Splash and humidity treatment		N/A
A.10.3.1	The enclosure provide adequate protection against splashing water		N/A
A.10.3.2	Complies with 10.3,duration of the test is 168h		N/A

ANNEX B	APPARATUS TO BE CONNECTED TO TELECOMUNICATION THE TELECOMMUNICATION NETWORKS		
	Complies with IEC 62151 clause 1	No TNV circuits.	N/A
	Complies with IEC 62151 clause 2		N/A
	Complies with IEC 62151 clause 3 modified		N/A
	Complies with IEC 62151 clause 4 modified		N/A
	Complies with IEC 62151 cause 5 modified		N/A
	Complies with IEC 62151 clause 6		N/A
	Complies with IEC 62151 clause 7		N/A
	Complies with IEC 62151 annex A, B and C		N/A

ANNEX L	ADDITIONAL REQUIREMENTS FOR ELECTRONIC FLASH APPARATUS FOR PHOTOGRAPHIC PURPOSES		
L.5	Marking and instructions		N/A
L.5.5.1	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used	No electronic flash apparatus.	N/A
	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used		N/A
L.7	Heating under normal operating conditions		N/A
L.7.1.6	Lithium batteries meet permissible temp rise in Table 3	No such lithium batteries.	N/A
L.9	Electric shock hazard under normal operating conditions		N/A
L. 9.1.1.1	Terminals for connection to synchroniser not hazardous live	Not flash synchroniser.	N/A
L.14	Components		N/A
L.14.6.7	Mains switch characteristics appropriate to its function under normal conditions		N/A

IEC 60065								
Clause		Requirement + Test				Result - Remark		Verdict
7.1		TABLE: Heating Test						P
		Ambient (°C)				23-24		—
		Loudspeaker impedance (Ω).....				4 Ohm x 3 channels(Tweeter) 4 Ohm x 2 channels(Full-range) 4 Ohm x 3 channels(Mid-Woofer)		—
Cond.	U _n (V)	Hz	I _n (A)	P _n (W)	U _{out} (V)	P _{out} (W)	Operating Condition / Status	
1	90	50	2.99	161.2	Tweeter)	Tweeter)	1kHz sine wave, measured at maximum non-clipped output mode with Line-in mode, and connect with 5 V / 2.0 A loaded for USB terminal.	
2	100	50	2.93	160.6	7.67 x 3 ch	14.71 x 3 ch		
3	240	50	1.01	161.6	Full-Range)	Full-Range)		
4	264	50	0.94	161.4	7.47 x 2 ch	13.95 x 2 ch		
5	90	50	3.01	162.3	Mid-Woofer)	Mid-Woofer)		
6	100	50	2.95	160.2	9.03 x 3 ch	20.39 x 3 ch		
7	240	50	1.00	161.5				
8	264	60	0.93	161.3				
9	90	50	0.59	34.2	Tweeter)	Tweeter)	1kHz sine wave, measured at 1/8 maximum non-clipped output mode with Line-in mode, and connect with 5 V / 2.0 A loaded for USB terminal.	
10	100	50	0.54	33.9	2.71 x 3 ch	1.84 x 3 ch		
11	240	50	0.25	33.8	Full-Range)	Full-Range)		
12	264	50	0.24	33.7	2.64 x 2 ch	1.74 x 2 ch		
13	90	50	0.60	34.1	Mid-Woofer)	Mid-Woofer)		
14	100	50	0.54	34.0	3.19 x 3 ch	2.55 x 3 ch		
15	240	50	0.25	33.9				
16	264	60	0.24	34.2				
Several loudspeaker systems:				Full Range - TOP R and L for built-in speakers, Tweetwer - R and L, Center for built-in speakers, Mid-Woofer - R and L, Center for built-in speaker				
Marking of loudspeaker terminals:				No marking (built-in speakers).				

IEC 60065					
Clause	Requirement + Test			Result - Remark	
Test condition No.	No. 9	No. 12	No. 13	No. 16	—
Thermocouple Locations	dT (K)	dT (K)	dT (K)	dT (K)	dT (K) limit *)
AC inlet connector body (JK2106)	7.6	7.3	7.4	6.4	—
AC connector, J814 body	11.0	10.6	10.9	9.4	—
Varistor, VX801S body	25.5	21.9	25.3	20.8	50
X-capacitor, CX801S body	27.6	22.9	27.5	21.8	65
Line filter, LX801S coil	32.2	21.7	32.1	20.6	85 **)
Line filter, LX801S core	30.3	21.1	30.2	20.0	95
Switching transformer, T801CS coil	49.1	48.2	49.0	46.7	85 **)
Switching transformer, T801CS core	45.4	45.2	45.4	43.7	95
Switching transformer, T801CS bobbin	45.6	45.1	45.5	43.6	95
PCB near T801CS	43.9	40.8	43.8	39.5	70
E. capacitor, CM801S body	25.8	20.6	25.6	19.5	70
PCB near U500 in Main board	33.0	33.3	32.7	32.2	70
PCB near L105 in AMP board	39.4	39.5	39.3	38.6	70
Internal enclosure above T801CS	21.0	20.3	21.0	18.6	—
Front touch panel	5.6	5.9	5.5	6.3	50
Top enclosure near touch button	3.8	4.0	3.7	4.0	60
Rear enclosure near USB port	15.6	15.9	15.1	15.3	60
Ambient	24.2 °C	23.3 °C	24.6 °C	24.2 °C	—
Supplementary information:					
*) Temperature rise limits for tropical climate is 10 K less. Comply.					
**) Minus (-) 10K applied for thermo-couple method for windings.					

TABLE: Heating test, resistance method					N/A
Test condition No.....:					—
Ambient, t ₁ (°C).....:					—
Ambient, t ₂ (°C).....:					—
Temperature rise of winding	R ₁ (Ω)	R ₂ (Ω)	ΔT (K)	Max. dT (K)	Insulation class
Supplementary information:					

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
7.2	TABLE: Heat Resistance of Insulating Materials		P
Temperature T of part	T - normal conditions (°C)	T - fault conditions (°C)	Min T softening (°C)
AC connector (J814) body	11.0 (35.2 °C) (I/P=90 V, 50 Hz, ambient 24.2 °C)	—	> 200 (type, A3963)
Supplementary information: Base for LX801S line filter / Bobbins for T801CS are made of Phenolic.			

10.4	TABLE: Dielectric Strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Between mains poles (primary fuse disconnected) (as received and after humidity / fault condition tests)		1 500 Vac	No
Between parts separated by double or reinforced insulation (as received and after humidity / fault condition tests)		3 000 Vac	No
Supplementary information: Tested with all manufacturer's transformer respectively.			

10.4	TABLE: Insulation Resistance Measurements		P
Insulation resistance R between:		R (MΩ)	Required R (MΩ)
Between mains poles (primary fuse disconnected) (as received and after humidity test)		Min. 2.6	Min. 2
Between parts separated by double or reinforced insulation (as received and after humidity)		Min. 5.2	Min. 4
Supplementary information: Tested with all manufacturer's transformer respectively.			

IEC 60065					
Clause		Requirement + Test		Result - Remark	
11		TABLE: Fault Conditions			
No.	Component	Fault	dT (K) / Component ***)	P	
Test conditions, test duration, test result					
1 **)	USB terminal	Max. loaded (2.21 A)	47.1 (Limit: 140 ****) / Linefilter(LX801S) Coil 55.0 (Limit: 140 ****) / Transf.(T801CS) Coil	Normal operated. FI stabilized at 0.66 A. Measured highest temperature; - Line filter (LX801S) Coil: 60.9 °C, - Transf.(T801CS) Coil: 78.8 °C, - Ambient: 23.8 °C NCD. No hazard. Duration of the test: 3 h 15 min.	
2 *)	12V output in power supply unit (T801CS) #)	Max. loaded (8.51 A)	29.4 (Limit: 140 ****) / Linefilter(LX801S) Coil 111.2 (Limit: 140 ****) / Transf.(T801CS) Coil	Normal operated. FI stabilized at 0.76 A. Measured highest temperature; - Line filter (LX801S) Coil: 53.4 °C, - Transf.(T801CS) Coil: 135.2 °C, - Ambient: 24.0 °C NCD. No hazard. Duration of the test: 2 h 45 min.	
3 *)	Speaker outputs	Maximum non-clipped output	N/A	Unit protection after 30 sec. No Dielectric breakdown. NCD. NH. Duration of the test: 10 min.	
4 **)	Speaker outputs	Maximum non-clipped output	N/A	Unit protection immediately. No Dielectric breakdown. NCD. NH. Duration of the test: 10 min.	
5 *)	BS801S ("+" to AC)	SC	N/A	FP801S fuse opened immediately. ¹) NH. Duration of the test: 1 s.	
6 **)	BS801S ("+" to AC)	SC	N/A	FP801S fuse opened immediately. ¹) NH. Duration of the test: 1 s.	
7 *)	BS801S ("- "to AC)	SC	N/A	FP801S fuse opened immediately. ¹) NH. Duration of the test: 1 s.	
8 **)	BS801S ("- "to AC)	SC	N/A	FP801S fuse opened immediately. ¹) NH. Duration of the test: 1 s.	
9 *)	CM801S	SC	N/A	FP801S fuse opened immediately. ¹) NH. Duration of the test: 1 s.	
*) Tested voltage 264 V ***) Tested voltage 90 V					
****) Temperature rise limits for tropical climate is 10K less. Comply.					
***** Minus (-) 10K applied for thermo-couple method for windings.					
Supplementary information:					
Note- SC: Short-circuit, NCD: No component damage, NH: No hazard.					
#) Tested on the bench.					

IEC 60065					
Clause	Requirement + Test		Result - Remark	Verdict	
11		TABLE: Fault Conditions			P
No.	Component	Fault	dT (K) / Component ***)	Test conditions, test duration, test result	
10 **)	CM801S	SC	N/A	FP801S fuse opened immediately. 1) NH. Duration of the test: 1 s.	
11)	IC801S (Pin 3 to Pin 5)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.04 A. NCD. NH. Duration of the test: 10 min.	
12 **)	IC801S (Pin 3 to Pin 5)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.04 A. NCD. NH. Duration of the test: 10 min.	
13)	Q801S (G to S)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.04 A. NCD. NH. Duration of the test: 10 min.	
14)	Q801S (D to S)	SC	N/A	FP801S fuse opened immediately. 1) NH. Duration of the test: 1 s.	
15 **)	Q801S (D to S)	SC	N/A	FP801S fuse opened immediately. 1) NH. Duration of the test: 1 s.	
16)	Q801S (D to G)	SC	N/A	FP801S fuse opened immediately. 1) Q801S damaged. NH. Duration of the test: 1 s.	
17 **)	Q801S (D to G)	SC	N/A	FP801S fuse opened immediately. 1) Q801S damaged. NH. Duration of the test: 1 s.	
18)	PC801S (Pin 3 to Pin 4)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.04 A. NCD. NH. Duration of the test: 10 min.	
19)	PC801S (Pin 1 to Pin 2)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.06 A. NCD. NH. Duration of the test: 10 min.	
20)	D901 (1 to 2)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.10 A. NCD. NH. Duration of the test: 10 min.	
21)	D901 (1 to 3)	SC	N/A	Unit shutdown immediately. FI stabilized at 0.10 A. NCD. NH. Duration of the test: 10 min.	
*) Tested voltage 264 V			**) Tested voltage 90 V		
Supplementary information:					
Note- SC: Short-circuit, NCD: No component damage, NH: No hazard.					
#) Tested on the bench.					

IEC 60065				
Clause	Requirement + Test		Result - Remark	Verdict
11	TABLE: Fault Conditions			P
No.	Component	Fault	dT (K) / Component ***)	Test conditions, test duration, test result
22 *)	C902	SC	N/A	Unit shutdown immediately. FI stabilized at 0.10 A. NCD. NH. Duration of the test: 10 min.
*) Tested voltage 264 V			**) Tested voltage 90 V	
Supplementary information: Note- SC: Short-circuit, NCD: No component damage, NH: No hazard. #) Tested on the bench.				

IEC 60065						
Clause	Requirement + Test			Result - Remark		Verdict
13	TABLE: Clearance And Creepage Distance Measurements					P
Rated supply voltage:	240	Pollution degree ..:	2	Material Group	IIb	
2 N force on internal parts applied:			Yes			P
30 N force on outside of conductive enclosure applied:			Yes			P
clearance and creepage distance at/of:	Working voltage (V)		Clearance (mm)		Creepage (mm)	
	U peak	U r.m.s.	Required *)	Measured	required	Measured
Basic insulation						
Line to Neutral ^{1), 2)}	340	240	3.0	3.4	3.0	4.9
Across mains fuse FP801S	340	240	3.0	22.5	3.0	22.5
Reinforced insulation						
PC801S pr. pins to sec. pins	348	218	6.0	8.5	6.0	8.5
CY801S pri. – CY801S sec.	348	212	6.0	9.7	6.0	9.7
CY802S pri. – CY802S sec.	344	212	6.0	8.7	6.0	8.7
T801CS pin 5 – PC801S pin 1	440	219	6.0	10.1	6.0	10.1
PC801S pin 4 – T801CS pin 6, 7	336	210	6.0	11.8	6.0	11.8
CY801S pri. – PC801S pin 2	348	217	6.0	9.1	6.0	9.1
PC801S pin 3 – CY801S sec.	340	211	6.0	8.9	6.0	8.9
Neutral and CY802S sec.	340	240	6.0	8.7	6.0	8.7
Primary to Accessible part (plastic enclosure) ³⁾	340	240	6.0	15.6	6.0	> 15.6
Supplementary information:						
¹⁾ Before mains fuse.						
²⁾ After 4 A mains fuse and before bridge diode (part of directly connected to the mains).						
³⁾ Measured between primary (Inlet, Line) and plastic enclosure.						
*) This equipment is intended to be operated under altitude up to 5 000 m, so the clearance is multiplied by the altitude correction factor (1.48), specified in table A.2 of IEC 60664-1: 2007.						

IEC 60065						
Clause	Requirement + Test			Result - Remark		Verdict
13	TABLE: Clearance And Creepage Distance Measurements					P
Rated supply voltage:	240	Pollution degree ..:	2	Material Group	IIIb	
2 N force on internal parts applied:			Yes			P
30 N force on outside of conductive enclosure applied:			Yes			P
clearance and creepage distance at/of:	Working voltage (V)		Clearance (mm)		Creepage (mm)	
	U peak	U r.m.s.	Required *)	Measured	required	Measured
Switching mode transformer (Reinforced insulation)						
T801CS pri. pins to sec. pins 1)	488 2)	225 2)	6.0	7.3	6.0	7.3
Supplementary information: 1) Measured spacing on transformer body. 2) Measured highest working voltage for transformer between primary and secondary. <u>T801CS (1400900)</u> - Primary – Core = 1.4 mm / Secondary – Core = 8.5 mm (therefore core was primay part). Primary windings – Secdonary windings = 7.3 mm - Triple insulated wire (TIW) used in primary windings (W5, W3), TIW are separately approved component to “Reinforced Insulation” by VDE, see appended table 14. *) This equipment is intended to be operated under altitude up to 5 000 m, so the clearance is multiplied by the altitude correction factor (1.48), specified in table A.2 of IEC 60664-1: 2007.						
Circuits conductively connected to the mains (use Tables 8, 9 and 11).						

17.1	Torque test to Table 20					P
Screw Location / function	Diameter (mm)	With Head	Without Head	Material		Torque test (Nm) Fulfilled / Remarks
				Screw	Nut	
Fixing of enclosure	2.9	X	–	Metal	Plastic	0.5 Nm, 5 times / Pass
Fixing of bracket	3.9	X	–	Metal	Plastic	1.2 Nm, 5 times / Pass
Supplementary information:						

IEC 60065					
Clause	Requirement + Test		Result - Remark		Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1), 2)}
Mains cord set (for Korea)	DongGuan XinHaiLin Wire & Cable Technology Co., Ltd	XHL-P057 plug	2.5 A 250V~	K60884-1	KC, SU04174-14002A
		H05VVH2-F cord	2 x 0.75 mm²	K60227	KC, SU01116-14001A
		LS-22 insert	2.5 A 250V~	KC60320-1	KC, SU04174-14004B
Mains cord set (for Japan)	Shenzhen Hong YunElectron Co.,Ltd.	HYP-001	7 A 125 V~	JIS C 8303/8306	PSE, JET7221-43001-1001
	Shenzhen Tongyuan Industrial Co.,Ltd	VCTFK	2 x 0.75 mm²	JIS C 3306	PSE, JET1985-12009-1002
	Shenzhen Hong YunElectron Co.,Ltd.	HYC-201	7 A 125 V~	J60320-1	PSE, JET7221-43006-1001
Mains cord set (for China)	Shenzhen HenglidelIndustry Co, Ltd	HLD-1	6A 250V~	GB 1002-2024, GB/T 2099.1-2021	CCC, 20080102012 83309
		53(RVV)	2 x 0.75 mm²	GB/T5023.5-2008	CCC, 20090101053 39845
		HLD-005	2.5A 250V~	GB/T15934-2008	CCC, 20240101016 07127
Mains cord set (for India)	I-SHENG ELECTRIC WIRE & CABLE CO., LTD.	SP-021Q	6A 250V~	IS 1293	BIS, CM/L-4100069378
		YY	2 x 0.75 mm²	IS 694	BIS, CM/L-4100299193
		IS-033C	2.5A 250V~	IEC 60320-1	Fimko, FI-57430/M1
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾ , ²⁾
Mains cord set (for Brazil)	Chaohui Electrical APPLIANCE Co., Ltd.	CH-1701	10A 250V~	NBR 14136	BV, BR38756001
	Shenzhen HenglidelIndustry Co, Ltd	H03VVH2-F	2 x 0.75 mm ²	EN 50525-2-11	VDE, 40047119
	Shenzhen Hong YunElectron Co.,Ltd.	HYC-201	2.5A 250V~	IEC 60320-1	VDE, 40022120
Mains cord set (for Australia)	Shenzhen Hong YunElectron Co.,Ltd.	HYP-203	7.5A/10A 250V~	AS/NZS 3112, AS/NZS 3100	SAA Approval, SAA-203297-EA
	Shenzhen Tongyuan Industrial Co.,Ltd	H05VVH2-F	2 x 0.75 mm ²	AS/NZS 60227.5	SAA Approval, NSW24638
	Shenzhen Hong YunElectron Co.,Ltd.	HYC-G201	2.5A 250V~	AS/NZS 60320.1	SAA Approval, SAA-203296-EA
Mains cord set (for CENELEC Countries)	Shenzhen Hong YunElectron Co.,Ltd.	HYP-201	2.5A 250V~	DIN VDE 0620 Teil 101, EN 50075	VDE, 40021944
	Shenzhen HenglidelIndustry Co, Ltd	H05VVH2-F	2 x 0.75 mm ²	EN 50525-2-11	VDE, 40047119
	Shenzhen Hong YunElectron Co.,Ltd.	HYC-201	2.5A 250V~	EN IEC 60320-1	VDE, 40022120
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾ , ²⁾
Mains cord set (for UK)	Shenzhen Hong YunElectron Co.,Ltd.	HYP-UK301	5A 250V~	BS 1363-1	ASTA, 1426
	Shenzhen HenglidelIndustry Co, Ltd	H05VVH2-F	2 x 0.75 mm ²	EN 50525-2-11	VDE, 40047119
	Shenzhen Hong YunElectron Co.,Ltd.	HYC-201	2.5A 250V~	EN IEC 60320-1	VDE, 40022120
- Description:	A various suitable certified power supply mains cord set can be added in the country where the apparatus is sold. The minimum rated current of power plug shall be more than the rated current of the apparatus.				
Appliance inlet	LECI Electronics Co., LTD	DB-8	AC 250 V~, 2.5 A	IEC 60320-1	VDE, 40032028
Internal Wiring	MYUNG BO CABLE CO LTD	1007	Min. 300 V, 80 °C, marked VW-1	IEC 60065 UL 758	Tested in the equipment UL, E232407
Alt.)	Interchangeable	Interchangeable	Min. 300 V, 80 °C, marked VW-1	IEC 60065 UL 758	Tested in the equipment UL
Tubing for Internal Wiring	DONGGUAN SALIPT CO LTD	SALIPT S-901-600	Max. 600 V, 125 °C, VW-1	IEC 60065 UL 758	Tested in the equipment UL, E209436
Alt.)	Interchangeable	Interchangeable	Max. 600 V, 125 °C, VW-1	IEC 60065 UL 758	Tested in the equipment UL
AC connector (J814)	ZHEJIANG LIANHE ELECTRONIC CO LTD	A3963-WR03-2A	250 V~, 10 A, V-0, PA66	IEC 60065 UL 1977	Tested in the equipment UL, E364711
Mains fuse (FP801S)	Smart Electronics Inc.	STC series	T4A H 250V	IEC 60127-1	VDE, 40031932
Alt.)	Dongguan Better Electronics Technology Co., Ltd.	524 series	T4A H 250V	IEC 60127-1	VDE, 40025424
Supplementary information:					
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
²⁾ License available upon request.					

IEC 60065					
Clause	Requirement + Test		Result - Remark		Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1), 2)}
Varistor (VX801S)	Xiamen Wanming Electronics Co.,Ltd	WMR14D751K	Max. Continuous a.c. voltage: 460 V, Max. Peak current: 6.0 kA, 85 °C Coating material: V-0	IEC 60065 IEC 61051-1 IEC 61051-2 IEC 61051-2-2 IEC 60950-1 (Annex Q) UL 1449	Tested in the equipment VDE, 40052271
Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR14751K	Max. Continuous a.c. voltage: 465 V, Max. Peak current: 6.0 kA, 85 °C Coating material: V-0	IEC 60605 IEC 61051-1 IEC 61051-2 IEC 61051-2-2 IEC 60950-1 (Annex Q) UL 1449	Tested in the equipment VDE, 005944
Thermistor (NT801S)	Thinking Electronic Industrial Co., Ltd.	SCK-053	5 Ω, at 25 °C, NTC	IEC 60065 UL 1434	Tested in the equipment UL, E138827
Alt.)	Xiamen Wanming Electronics Co.,Ltd	08D050	5 Ω, at 25 °C, NTC	IEC 60065 UL 1434	Tested in the equipment UL, E324473
Alt.)	Interchangeable	Interchangeable	Max. 5 Ω, at 25 °C, NTC	IEC 60065 UL 1434	Tested in the equipment UL
- Description:	The component is located after mains fuse (FP801S).				
X-capacitor (CX801S)	SUNIL ELECTRONICS IND. CO., LTD.	436D	Max. 0.33 μF, AC 275/310 V Min. X2	IEC 60384-14	SEMKO, SE-ENEC-2002253
Alt.)	Nistronics (Jiangxi) Co., Ltd.	MPR	Max. 0.33 μF, AC 275/310 V, Min. X2	IEC 60384-14	VDE, 40032056
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾ , ²⁾
Line filter (LX801S)	LINYI NAM YANG ELECTRONICS CO.,LTD	1420991	130 °C	IEC 60065	Tested in the equipment
Alt.)	SHANDONG WUSONG ELECTRONIC TECHNOLOGY CO.,LTD	1420991	130 °C	IEC 60065	Tested in the equipment
Alt.)	TRANSON Co., Ltd.	1420991	130 °C	IEC 60065	Tested in the equipment
Base Material	Chang Chun Plastics Co Ltd	T375HF	V-0, 150 °C, PMC	UL 94	UL, E59481
- Description:	All sources are identical to each other except manufacturer.				
Bridge Diode (BD801S)	YANGJIE	GBL406	Min 600 V / 4 A	IEC 60065	Tested in the equipment
Alt.)	MCC	GBL406	Min 600 V / 4 A	IEC 60065	Tested in the equipment
Alt.)	Interchangeable	Interchangeable	Min 600 V / 4 A	IEC 60065	Tested in the equipment
Electrolytic Capacitor (CM801S)	JIANGHAI	CD263	Max. 100 µF, Min. 450 V, 105 °C	IEC 60065	Tested in the equipment
Alt.)	SAMWHA	KA	Max. 100 µF, Min. 450 V, 105 °C	IEC 60065	Tested in the equipment
Alt.)	Interchangeable	Interchangeable	Max. 100 µF, Min. 450 V, 105 °C	IEC 60065	Tested in the equipment
Supplementary information:					
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
²⁾ License available upon request.					

IEC 60065					
Clause	Requirement + Test		Result - Remark		Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1), 2)}
Optocoupler (PC801S)	Lite-on technology Corp.	LTV-1008	V _{ini,a} = 8 000 Vp, V _{ini,b} = 8 000 Vp, V _{IOTM} ; 8 000 Vp, Ext. dist.: 7.0 mm, DTI: 0.4 mm, 115 °C	IEC 60747-5-5	VDE, 138213
Alt.)	Everlight electronics Co., Ltd.	EL1018	V _{ini,a} = 8 000 Vp, V _{ini,b} = 8 000 Vp, V _{IOTM} ; 8 000 Vp, Ext. dist.: 8.0 mm, DTI: 0.4 mm, 115 °C	IEC 60747-5-5	VDE, 40028391
Bridging Cap. (CY801S)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 1 000 pF, Min. 250 Vac, Y1	IEC 60384-14	VDE, 40034438
Alt.)	Kunshan Wansheng Electronics Co., Ltd.	CT7	Max. 1 000 pF, Min. 250 Vac, Y1	IEC 60384-14	VDE, 40012143
Bridging Cap. (CY802S)	Xiamen Wanming Electronics Co., Ltd.	CK	Max. 680 pF, Min. 250 Vac, Y1	IEC 60384-14	VDE, 40034438
Alt.)	Anshan Kei Fat Electronic Ceramic Technical Co., Ltd.	CT7	Max. 680 pF, Min. 250 Vac, Y1	IEC 60384-14	VDE, 40036847
Switching mode transformer (T801CS)	LINYI NAM YANG ELECTRONICS CO.,LTD	1400900	Class 130 (B)	IEC 60065 UL 1446	Tested in the equipment UL, E140149
Alt.)	COREPLUS CO LTD	1400900	Class 130 (B)	IEC 60065 UL 1446	Tested in the equipment UL, E348258
Alt.)	TRANSON Co., Ltd.	1400900	Class 130 (B)	IEC 60065 UL 1446	Tested in the equipment UL, E348380
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

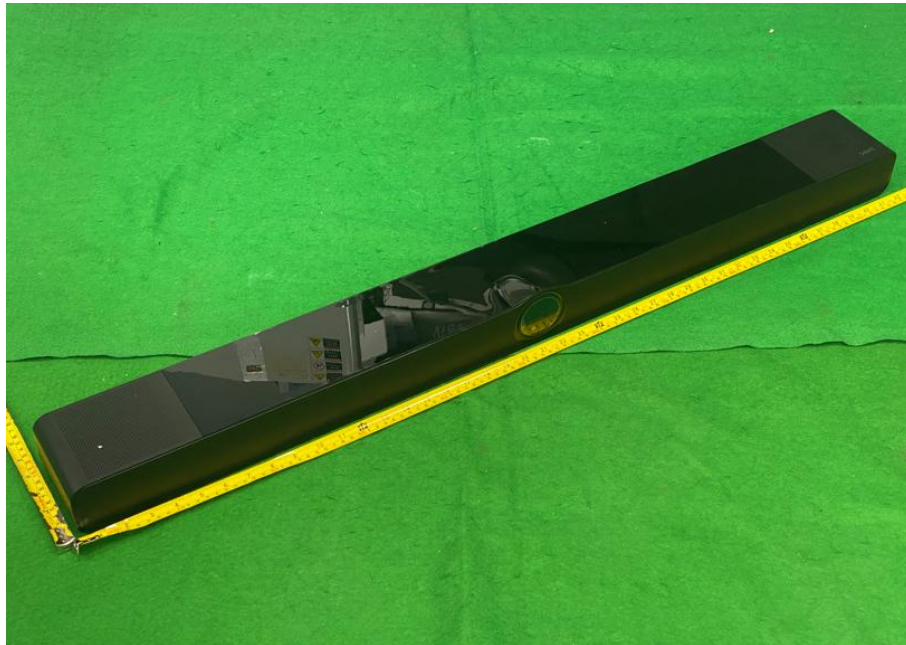
IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾ , ²⁾
TI Wire	KBI Cosmolink Co., Ltd.	TIW-M	Reinforced, 130 °C	IEC 62368-1 UL 2353	VDE, 138053 UL, E213764
Alt.)	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B	Reinforced, 130 °C	IEC 62368-1 UL 2353	VDE, 40033527 UL, E332529
Alt.)	YOUNG CHANG SILICONE CO LIMITED	STW-B	Reinforced, 130 °C	IEC 62368-1 UL 2353	VDE, 40013359 UL, E242198
Bobbin material	Sumitomo Bakelite Co Ltd	PM-9820	V-0, 150 °C, PF	UL 94	UL, E41429
- Description:	UL1446, Class 130 (B) insulation system covered, (NAM YANG = YS-130, Coreplus = CP-130, TRANSON = TO-01B)				
FET (Q801S)	AUK	SMK10N65F	Min. 650 V, Min. 10 A	IEC 60065	Tested in the equipment
Alt.)	SEMIHOW	HFS10N65D	Min. 650 V, Min. 10 A	IEC 60065	Tested in the equipment
Alt.)	UTC	10N65ML	Min. 650 V, Min. 10 A	IEC 60065	Tested in the equipment
Alt.)	Interchangeable	Interchangeable	Min. 650 V, Min. 10 A	IEC 60065	Tested in the equipment
Discharge resistor (RX801S, RX802S, RX803S)	YAGEO CORP	RC1206	Power: 1/4 W Resistance: 680 kΩ	IEC 62368-1	DEMKO, DK-113953-UL
Alt.)	POWERNET TECHNOLOGIES CORP	WR12X684JTL	Power: 1/4 W Resistance: 680 kΩ	IEC 62368-1	DEMKO, DK-155825-UL
Component IC Current Limiter for USB(U714)	Wuxi ETEK Microelectronics Co LTD	ET20164	Input Voltage: Max. 5.5 Vdc Output Current Limit: 2.9 A	IEC 62368-1	DEMKO, DK-169918-M1-UL
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

IEC 60065					
Clause	Requirement + Test		Result - Remark		Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1), 2)}
Component IC Current Limiter for HDMI (IC500)	TEXAS INSTRUMENTS INCORPORATED	TPS2553	Input Voltage: Max. 6.5 Vdc Output Current Limit: 1.7 A	IEC 62368-1	MET, US-2406-MET
Printed wiring board	Keenrich Electronics (Hong Kong) Ltd	37	V-0, 130 °C	UL 796	UL, E66047
Alt.)	Interchangeable	Interchangeable	Min. V-0, 130 °C	UL 796	UL
Printed wiring board (except for PSU)	KINGBOARD LAMINATES HOLDINGS LTD	KB-6160A	V-0, 130 °C	UL 796	UL, E123995
Alt.)	Interchangeable	Interchangeable	Min. V-0, 130 °C	UL 796	UL
Cover Enclosure Material (Cover-top, Cover-bottom)	COVESTRO	FR3311 TV	PC+ABS GF15, V-0, Min. 1.5 mm thickness	UL 94	UL, E41613
Alt.)	QINGDAO HAIER NEW MATERIAL DEVELOPMENT CO.,LTD	NH-9018G15	PC+ABS GF15, V-0, Min. 1.5 mm thickness	UL 94	UL, E230779
Alt.)	LOTTE CHEMICAL CORPORATION	GC-1151	PC+ABS, GF15 V-0,Min. 3.0 mm thickness	UL 94	UL, E115797
Alt.)	LOTTE CHEMICAL CORPORATION	HM-1159	PC+ABS, GF15 V-0,Min. 3.0 mm thickness	UL 94	UL, E115797
Cover Enclosure Material (Cover-terminal, Cover-rear)	COVESTRO	FR3010	PC+ABS, V-0, Min. 1.5 mm thickness	UL 94	UL, E41613
Alt.)	QINGDAO HAIER NEW MATERIAL DEVELOPMENT CO.,LTD	NH-9012	PC+ABS, V-0, Min. 1.5 mm thickness	UL 94	UL, E230779
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

IEC 60065					
Clause	Requirement + Test		Result - Remark		Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1), 2)}
Cover Enclosure Material (Cover-terminal, Cover-rear) - continued Alt.)	LOTTE CHEMICAL CORPORATION	GC-1017	PC+ABS, V-0, Min. 2.0 mm thickness	UL 94	UL, E115797
Alt.)	LOTTE CHEMICAL CORPORATION	NH-1090 (v4)	PC+ABS, V-0, Min. 2.0 mm thickness	UL 94	UL, E115797
Cover Enclosure Material (Cover-PCB, Holder grille, Cover-Side)	LG CHEM LTD	HI121H	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E67171
Alt.)	CHILIN TECHNOLOGY CO LTD	GA-1535	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E177071
Alt.)	LOTTE CHEMICAL CORPORATION	GC-0735K	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E115797
Alt.)	LOTTE CHEMICAL CORPORATION	HF-0680 U(v4)	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E115797
Enclosure Material (Deco-top)	CHI MEI CORPORATION	CM-207	PMMA, HB, Min. 1.5 mm thickness	UL 94	UL, E56070
Alt.)	LG CHEM LTD	HI121H	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E67171
Alt.)	CHILIN TECHNOLOGY CO LTD	GA-1535	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E177071
Alt.)	LOTTE CHEMICAL CORPORATION	GC-0735K	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E115797
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
2) License available upon request.					

IEC 60065						
Clause	Requirement + Test			Result - Remark		Verdict
14	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1), 2)}	
Enclosure Material (Deco-top) - continued Alt.)	LOTTE CHEMICAL CORPORATION	HF-0680 U(v4)	ABS, HB, Min. 1.5 mm thickness	UL 94	UL, E115797	
Front Metal Enclosure (Net Grille)	Interchangeable	Interchangeable	Steel (SPCC), Min. 0.6 mm thickness	IEC 60065	Tested in the equipment	
WiiM Voice Remote 2 Lite, WiiM Bar Remote	Linkplay Technology Inc.	WVR003, WVR004	Input: 5VDC	IEC 62368-1	Intertek, SG ITS-40753M1	
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.						
2) License available upon request.						

ATTACHMENT 1
Photos



Top View



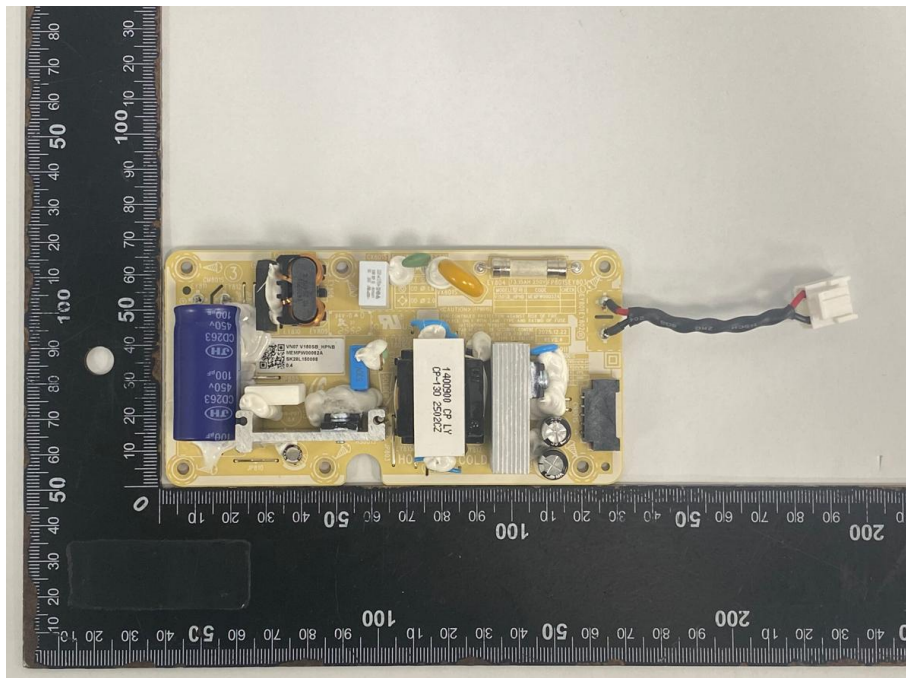
Bottom View

ATTACHMENT 1

Photos



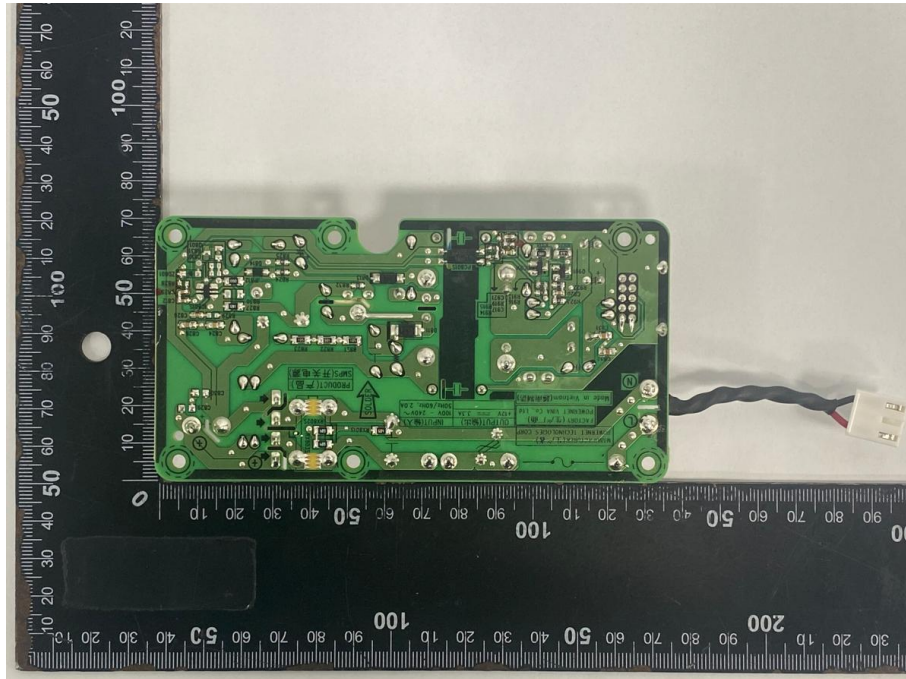
Interior View



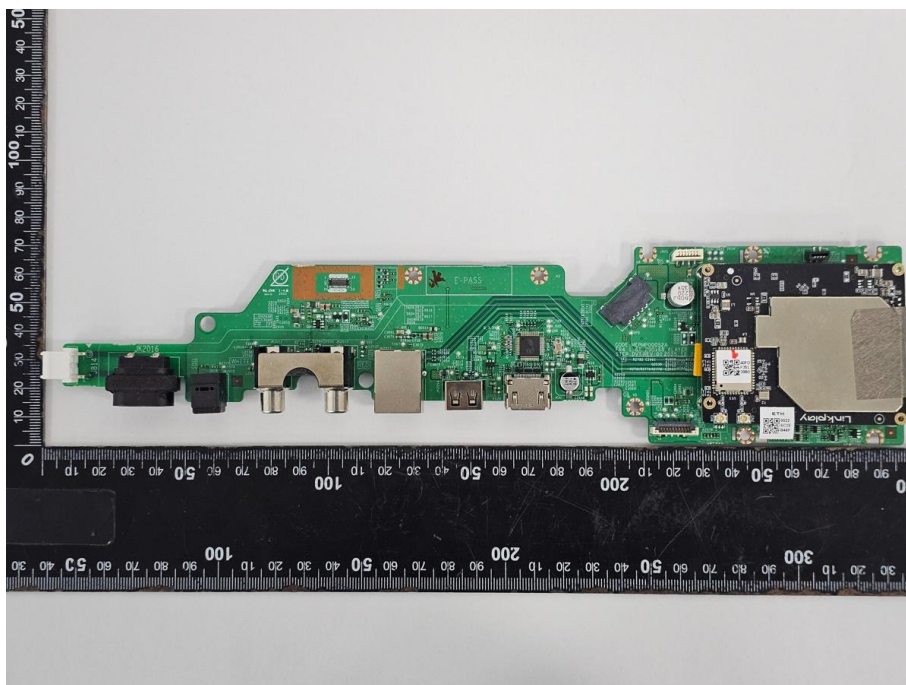
SMPS Top View

ATTACHMENT 1

Photos



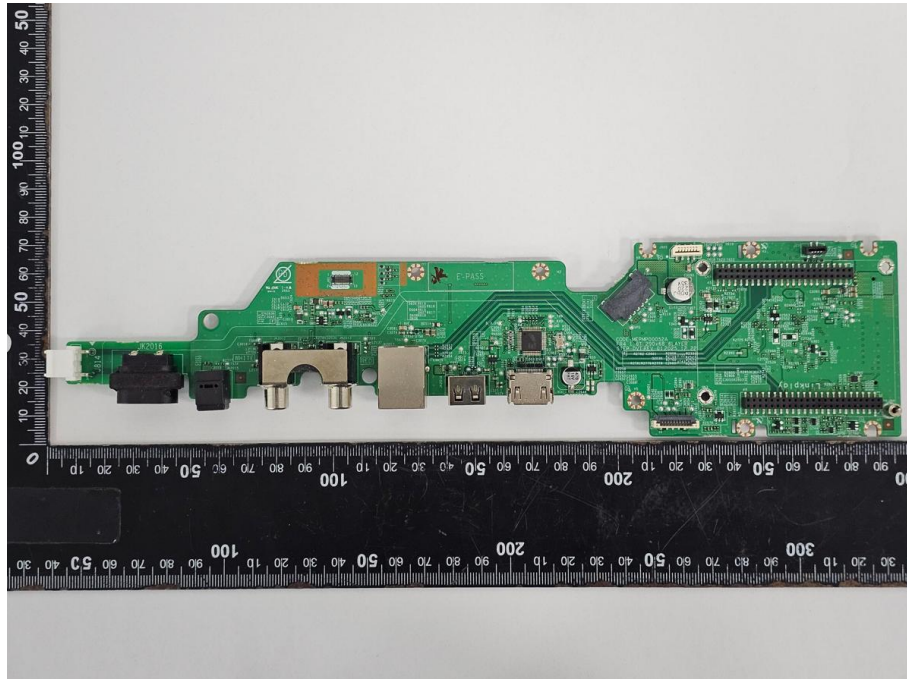
SMPS Bottom View



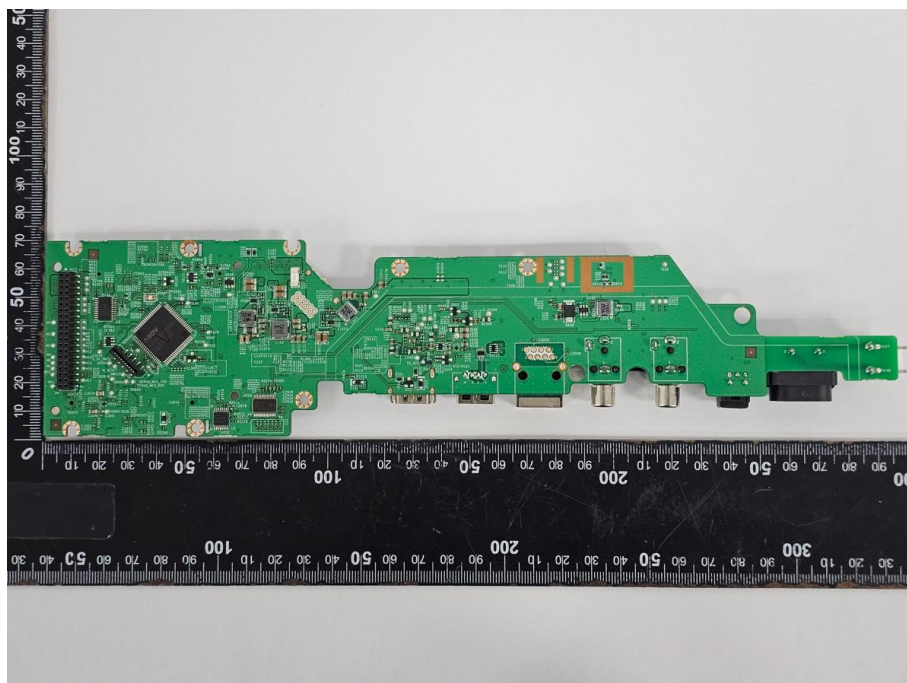
Mainboard Top View with wireless board

ATTACHMENT 1

Photos



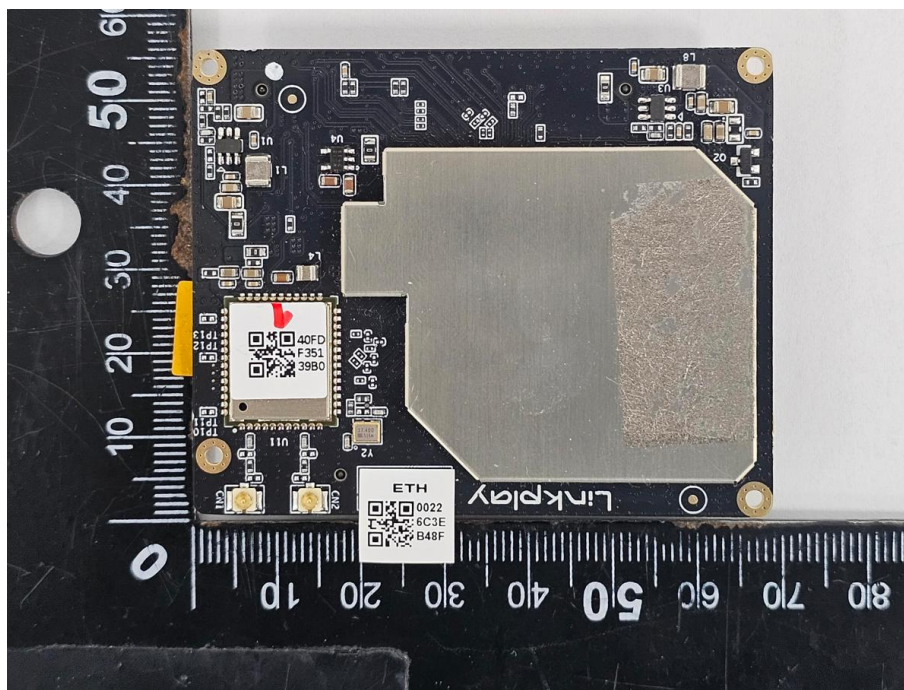
Mainboard Top View without wireless board



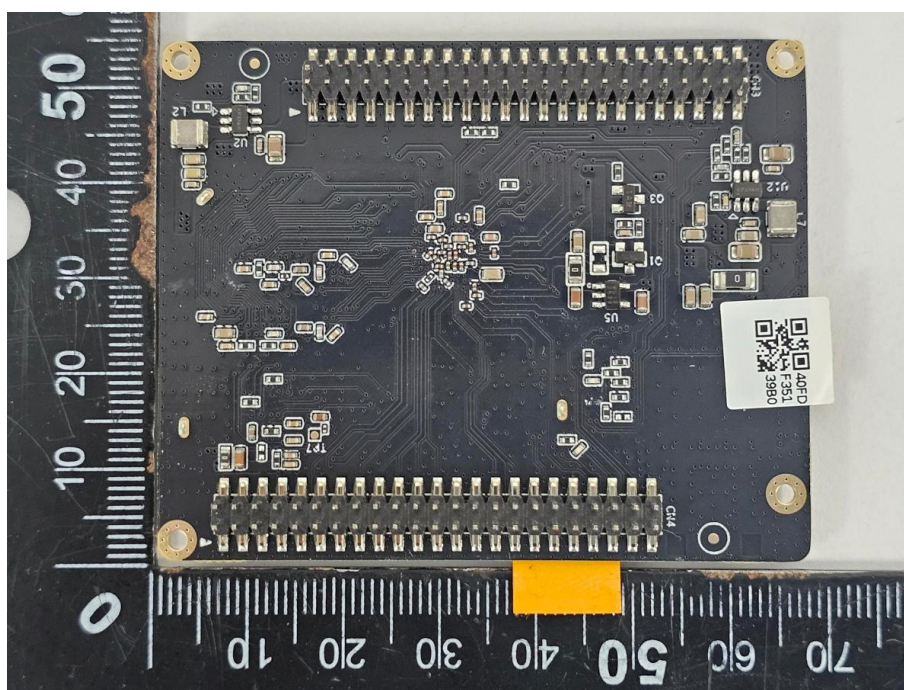
Mainboard Bottom View

ATTACHMENT 1

Photos



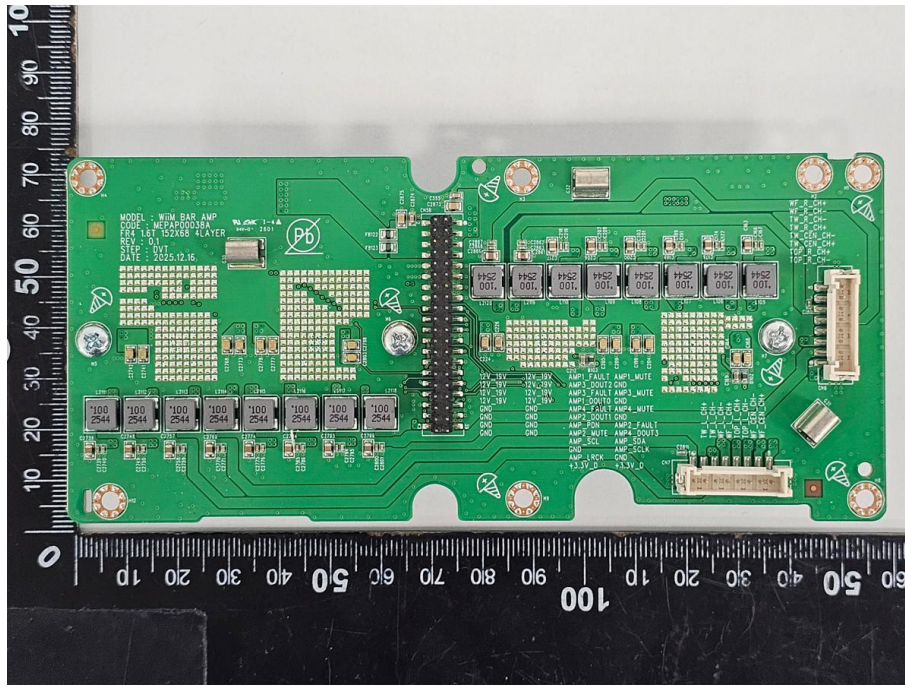
Wireless board Top View



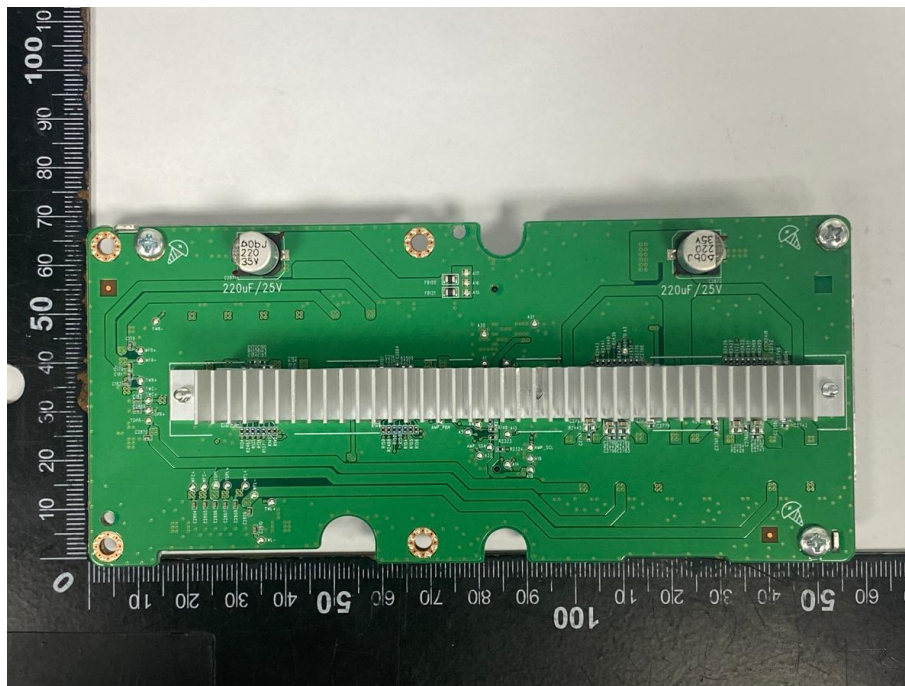
Wireless board Bottom View

ATTACHMENT 1

Photos



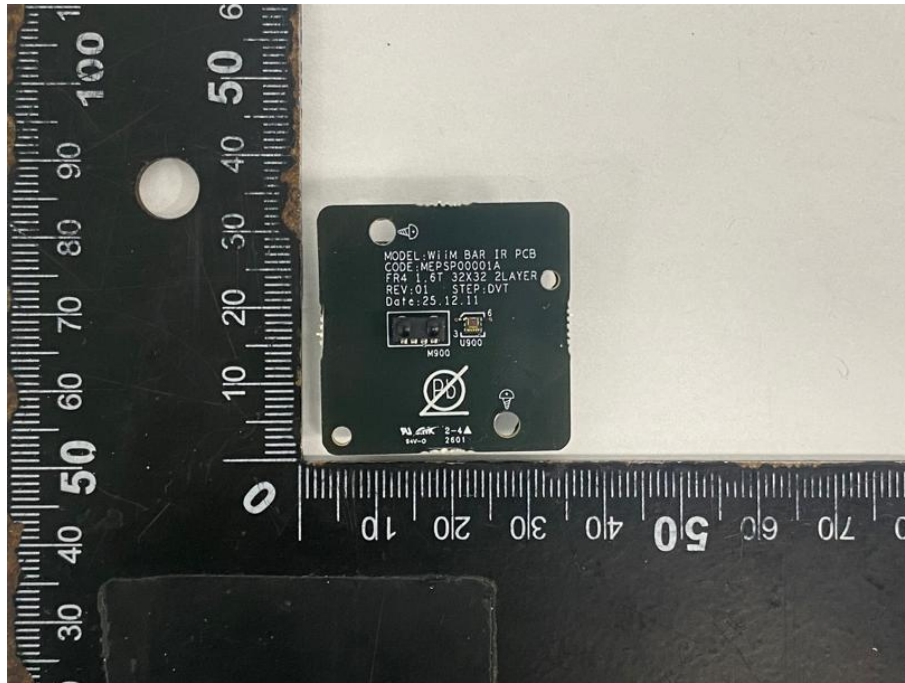
Amp board Top View



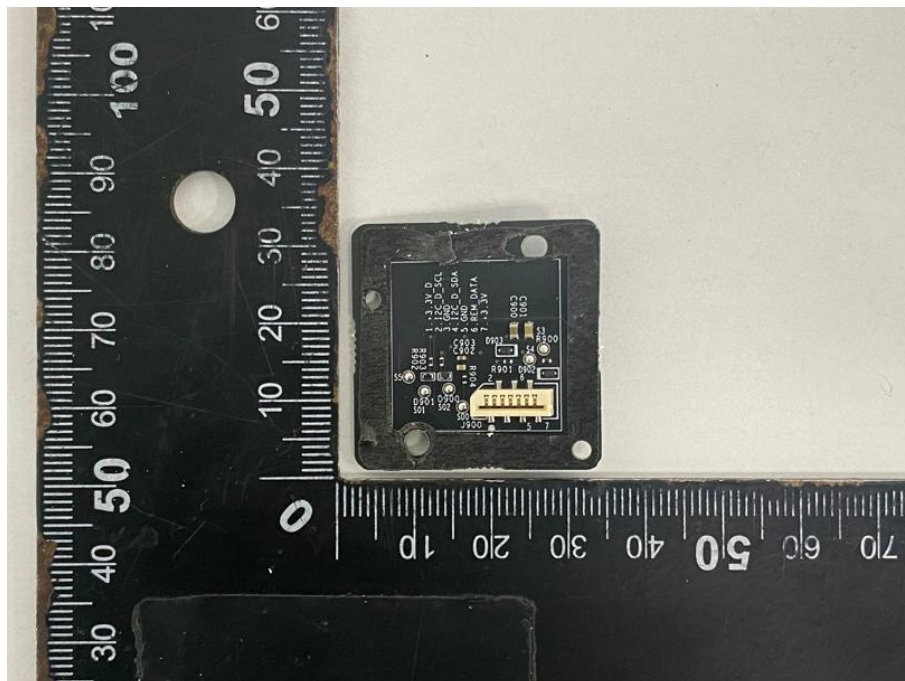
Amp board Bottom View

ATTACHMENT 1

Photos



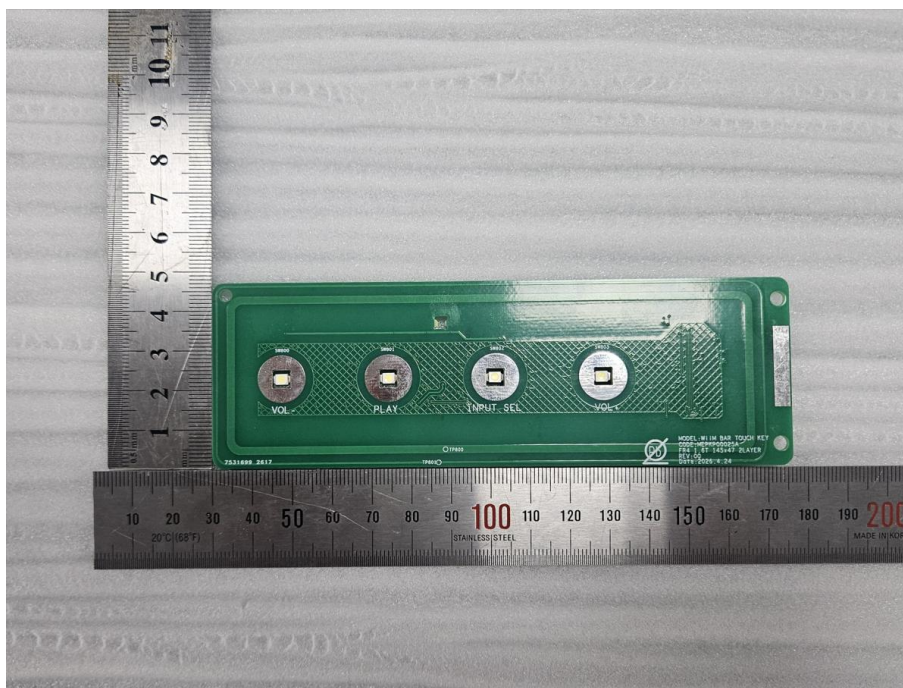
IR PCB Top View



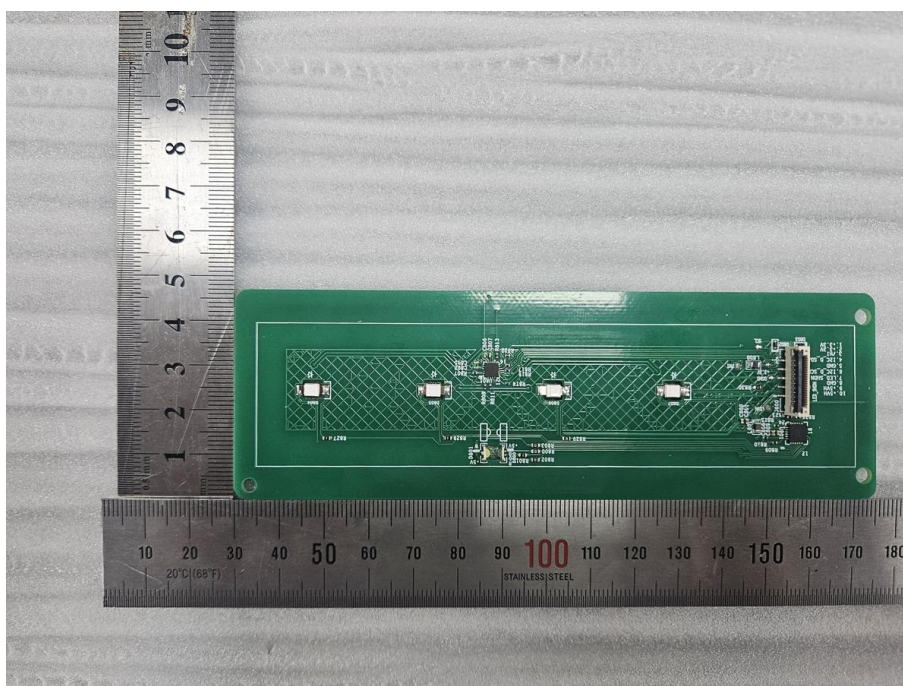
IR PCB Bottom View

ATTACHMENT 1

Photos



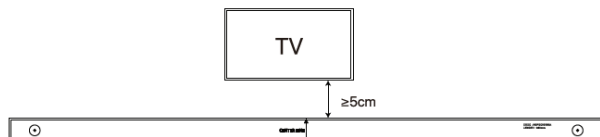
KEY PCB Top View



KEY PCB Bottom View

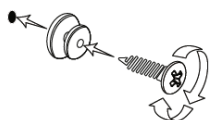
ATTACHMENT 2

Instruction / Installation Manual

4.2 Wall Mounting

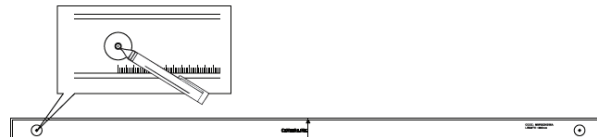
1. Position the included wall-mount guide on the wall at the desired location and ensure it is level. Then secure it with tape.

* Note: If mounted below a TV, align the centerline and leave at least 5 cm clearance below TV.



4. Insert an M5 wall-mount screw (35mm or longer) through each included wall-mount holder, then tighten them into the holes.

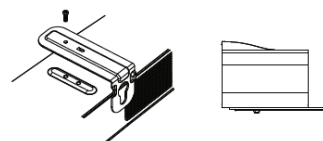
* Note: The wall-mount screw is not included.



2. Mark the drilling positions through the circles on the guide.

3. Drill holes at the marked positions using an appropriately sized drill bit.

* Note: Use appropriate wall anchors if not installing on wood studs.



5. Attach the two wall-mount brackets to the bottom of the WiiM Bar using two included screws (M4 x L12, 2 pcs). Ensure the hanger parts are positioned behind the WiiM Bar.

6. Hang the brackets onto the wall-mount holders, then slide the WiiM Bar down to lock.

ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60065 MALAYSIA NATIONAL DIFFERENCES Audio, Video and similar apparatus			
Differences according to : IEC 60055			
Attachment Form No. : MY_ND_IEC60065A			
Attachment Originator : SIRIM QAS International Sdn. Bhd.			
Master Attachment : 2008-05			
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No.	Requirement – Test	Result - Remark	Verdict
1.	Requirement as per IEC 60065		

Special Requirements

No.	Requirement – Test	Result - Remark	Verdict
1.	Appliance shall be subjected to test under tropical conditions as specified in the related standards	Comply.	P
2.	Appliance shall be marked with rated voltage 240 V or voltage range incorporating 240V Marking at 220V or 230V only is not allowed	Covered 240 Vac	P
3.	Mains frequency is 50Hz	Covered 50 Hz	P
4.	Tests shall be conducted at 240V		P
5.	Tests shall be conducted at 25 ± 5 °C, unless otherwise specified in the standards	Comply.	P
6.	The rated power input shall be the corresponding value measured at 240 V, 50 Hz	Covered 240 Vac, 50 Hz	P
7.	Appliances shall use the following plug:	See Summary of testing.	N/A
	a) 13A fused plugs complying to MS 589 or BS1363 OR		N/A
	b) 2.5A, 250V, flat non rewirable two pole plugs with cord for connection of class II equipment complying to MS 1578 or BS EN 50075 OR		N/A
	c) 15A, plugs complying to MS 1577		N/A
8.	Class 0 and 01 are not allowed	Class II apparatus.	N/A
9.	The supply cords shall comply to MS 140 or BS 6500 or IEC 60227-5 (PVC insulated cords) or IEC 60245-4 (Rubber insulated cords)	See Summary of testing.	N/A

ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
No.	Requirement – Test	Result - Remark	Verdict
10.	Standard colour code of supply cables: "Brown" for Live, "Blue" for Neutral, "Green" or "combination of Green & Yellow" for Earth	See Summary of testing.	N/A
11.	Instruction manual shall be in Malay Language and /or English	User information in the following language: English. See comments in Summary of Testing.	P

Specific Requirements to IEC 60065

Clause	Requirement – Test	Result – Remark	Verdict
5	MARKING		
5.1	Identification and supply ratings		
	Rated current or power consumption	(See main test report)	P
	Measured consumption at 240 V, 50Hz not exceeding the marked value by more than 10%	Not exceed the marked value. (See main test report)	P

7.	HEATING UNDER NORMAL CONDITIONS		
7.1	Temperature rises not exceeding specified values (Table 3 – Normal Conditions) For tropical climates; permissible temperatures shall be reduced with 10K The values of the temperature rises are based on a maximum ambient temperature of 45°C for tropical climates	Considered.	P

10	INSULATION REQUIREMENTS		
10.2	Humidity treatment For tropical conditions; 120 hours, 90-95% RH, 40±2°C	Considered.	P
10.3	Insulation resistance and dielectric strength	Considered.	P

11	FAULT CONDITIONS		
11.2	Heating under fault conditions Temperature rises not exceeding specified values (Table 3 – Fault conditions) For tropical climates; permissible temperatures shall be reduced with 10K	Considered.	P

ATTACHMENT 4

WiIM Voice Remote 2 Lite, WiIM Bar Remote CB certificate

	Ref. Certif. No.
	SG ITS-40753M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME
CB TEST CERTIFICATE

Product	WiIM Voice Remote 2 Lite, WiIM Bar Remote
Name and address of the applicant	Linkplay Technology Inc. 3012 Scott Blvd, Santa Clara, CA 95054, United States
Name and address of the manufacturer	Linkplay Technology Inc. 3012 Scott Blvd, Santa Clara, CA 95054, United States
Name and address of the factory <i>Note: When more than one factory, please report on page 2</i>	Power7 Technology (Dong Guan) Co., Ltd. No. 28 Binjiang Street, Shishuikou Village, Qiaotou Town, Dongguan City, GUANGDONG PROVINCE P. R. CHINA
Ratings and principal characteristics	Input: 5VDC
Trademark (if any)	WiIM
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	WVR003, WVR004
Additional information (if necessary may also be reported on page 2)	This certificate replaces CB Certificate No. SG ITS-40753 dated 23 September 2025 due to update the address of applicant and manufacturer, add Product Name, add model, add marking plate for model WVR004, update the National differences, add photos, add Model difference to General product information and other remarks. Group and national differences of all CENELEC countries and National differences of United States of America (US), Canada (CA), Japan (JP), SWITZERLAND (CH) were checked.
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2023
As shown in the Test Report Ref. No. which forms part of this Certificate	250819026SZN-001 Amendment 1

This CB Test Certificate is issued by the National Certification Body

Intertek Testing Services (Singapore) Pte Ltd
5, Pereira Road, #06-01
Asiawide Industrial Building
Singapore 368025

Date: 13 April 2026

intertek

Signature:


Ong Keng Chuan