



TEST REPORT EN IEC 62680-1-2

Universal serial bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery specification

Report Number.....: LCSA06035056S

Date of issue.....: 2025-07-08

Total number of pages.....: 27

Applicant's name.....: Shenzhen Huafurui Technology Co., Ltd.

Address.....: Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Test specification:

Standard.....: EN IEC 62680-1-2:2025

Test procedure.....: Type test

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

Test Report Form No.....: TRF-4-S-412 A/1

Test Report Form(s) Originator.....: LCS

Master TRF.....: Dated 2025-02

General disclaimer:

The test results presented in this report relate only to the object tested.

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Test item description.....: Tablet

Trade Mark.....: CUBOT

Manufacturer.....: Same as the Applicant

Model/Type reference.....: TAB KINGKONG S

Ratings.....: By Li-ion Battery



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**Testing procedure and testing location:**

Testing location/ address.....: Shenzhen LCS Compliance Testing Laboratory Ltd.
Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tested by.....: Cassie Ling / Test
engineer

Checked by.....: Tim Liu / Project
engineer

Approved by.....: Hart Qiu / Technical
manager

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

Annex A: Test data

Annex B: Photo documentation

Summary of testing:**Tests performed (name of test and test clause):**

The submitted samples were found to comply with the requirements of:

USB Power Delivery specification**Testing location:**

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Copy of marking plate: N/A



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Test item particulars:	
USB Type-C Receptable in equipment.....	<input checked="" type="checkbox"/> Full-Featured Type-C receptacle <input type="checkbox"/> USB 2.0 Type-C receptacle (16 pins) <input type="checkbox"/> Others:
USB PD supported	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
USB cable type	<input type="checkbox"/> Provided <input type="checkbox"/> Type A to C <input type="checkbox"/> Type C to C <input checked="" type="checkbox"/> Not provided
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..... : 2025-06-03	
Date (s) of performance of tests..... : From 2025-06-03 to 2025-07-08	
General remarks:	
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Manufacturer's Declaration per sub-clause 4.2.5 of IEC60950-1:	
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.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies).....	Same as the Manufacturer



**General product information:**

1. The EUT is a Tablet, The EUT has one type C receptacle for being charged.
2. The type-C receptacle was separately tested according to 'Universal Serial Bus Type-C Connectors and Cable Assemblies Compliance Document Revision', which fulfils the requirements of EN IEC 62680-1-3: 2022. (See critical components for details).
3. The Type-C receptacle is 24 pins as below figure:

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

TABLE: Critical components information

Object/ Part No.	Manufacturer / Trademark	Type/Model	Technical Data	Standard	Mark (S) Of Conformity
Type-C receptacle	Hong Ri Da Technology Company limited	UC119-0B1502R0	Type-C receptacle 24pin	Universal Serial Bus Type-C Cable and Connector Specification	Report Number:25T0 4N000300-001-COM USB-IF: TID 13249
Rechargeable Li-ion battery	Shenzhen Huafului Technology Co., Ltd	C62	3.91V d.c, 7000mAh, 27.37Wh	IEC 62133-2 EN 62133-2	Report Number: TCT250417B0 13





EN IEC 62680-1-2			
Clause	Requirement + Test	Result - Remark	Verdict
2	Overview		P
2.1	Introduction		P
2.2	Section Overview		P
2.3	Compatibility with Revision 2.0		P
2.4	USB Power Delivery Capable Devices		P
2.5	SOp* Communication		N/A
2.5.1	Introduction		N/A
2.5.2	SOP* Collision Avoidance		N/A
2.5.3	SOP Communication		N/A
2.5.4	SOP'/SOP" Communication with Cable Plugs		N/A
2.6	Operational Overview		P
2.6.1	Source Operation		P
2.6.2	Sink Operation		P
2.6.3	Cable Plugs		N/A
2.7	Architectural Overview		P
2.7.1	Policy		P
2.7.2	Message Formation and Transmission		P
2.7.3	Collision Avoidance		P
2.7.4	Power supply		P
2.7.5	DFP/UFP		P
2.7.6	Cable and Connectors		N/A
2.7.7	Interactions between Non-PD, BC and PD devices		N/A
2.7.8	Power Rules		P
2.8	Extended Power Range (EPR) Operation1		N/A
2.9	Charging Models		P
2.9.1	Fixed Voltage Charging Models		P
2.9.2	Programmable Power Supply (Pps) Charging Models		P
2.9.3	Adjustable Voltage supply (Avs) Charging Models		N/A
3	UsB Type-A and UsB Type-B Cable Assemblies and Connectors		N/A
4	Electrical Requirements		P
4.1	Interoperability with other UsB Specifications		P
4.2	Dead Battery Detection / Unpowered Port Detection		P
4.3	Cable IR Ground Drop (IR Drop)		P
4.4	Cable Type Detection		N/A
5	Physical Layer		P





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Clause	Requirement + Test	Result - Remark	Verdict
5.1	Physical Layer Overview		P
5.2	Physical Layer Functions		P
5.3	Symbol Encoding		P
5.4	Ordered Sets		P
5.5	Transmitted Bit Ordering		N/A
5.6	Packet Format		N/A
5.6.1	Packet Framing		P
5.6.2	CRC		P
5.6.3	Packet Detection Errors		P
5.6.4	Hard Reset		P
5.6.5	Cable Reset		N/A
5.7	Collision Avoidance		P
5.8	Biphase Mark Coding (BMC) Signaling Scheme		P
5.8.1	Encoding and signaling		P
5.8.2	Transmit and Receive Masks		P
5.8.3	Transmitter Load Model		P
5.8.4	BMC Common specifications		P
5.8.5	BMC Transmitter Specifications		P
5.8.6	BMC Receiver Specifications		P
5.9	Built in Self-Test (BIST)		N/A
5.9.1	BIST Carrier Mode		N/A
5.9.2	BIST Test Data		N/A
6	Protocol Layer		P
6.1	Overview		N/A
6.2	Messages		N/A
6.2.1	Message Construction		P
6.3	Control Message		N/A
6.3.1	GoodCRC Message		P
6.3.2	GotoMin Message		P
6.3.3	Accept Message		P
6.3.4	Reject Message		P
6.3.5	Ping Message		P
6.3.6	PS RDY Message		P
6.3.7	Get Source Cap Message		P
6.3.8	Get Sink Cap Message		P
6.3.9	DR Swap Message		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.3.10	PR Swap Message		P
6.3.11	VCONN Swap Message		P
6.3.12	Wait Message		P
6.3.13	Soft Reset Message		P
6.3.14	Data Reset Message		N/A
6.3.15	Data Reset Complete Message		P
6.3.16	Not Supported Message		P
6.3.17	Get Source Cap Extended Message		P
6.3.18	Get Status Message		P
6.3.19	FR Swap Message		P
6.3.20	Get Pps Status		P
6.3.21	Get Country_Codes		P
6.3.22	Get Sink Cap Extended Message		P
6.3.23	Get Source Info Message		P
6.3.24	Get Revision Message		P
6.4	Data Message		P
6.4.1	Capabilities Message		P
6.4.2	Request Message		P
6.4.3	BIST Message		P
6.4.4	Vendor Defined Message		P
6.4.5	Battery_Status Message		P
6.4.6	Alert Message		P
6.4.7	Get Country_Info Message		P
6.4.8	Enter UsB Message		P*
6.4.9	EPR Request Message		P
6.4.10	EPR Mode Message		P
6.4.11	Source Info Message		P
6.4.12	Revision Message		P
6.5	Extended Message		N/A
6.5.1	Source_Capabilities Extended Message		P
6.5.2	Status Message		P
6.5.3	Get Battery_Cap Message		P
6.5.4	Get Battery_Status Message		P
6.5.5	Battery_Capabilities Message		P
6.5.6	Get Manufacturer Info Message		P
6.5.7	Manufacturer Info Message		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.5.8	Security Messages		P
6.5.9	Firmware Update Messages		P
6.5.10	PPs Status Message		P
6.5.11	Country_Codes Message		P
6.5.12	Country_Info Message		P
6.5.13	Sink Capabilities Extended Message		P
6.5.14	Extended_Control Message		P
6.5.15	EPR Capabilities Message		P
6.5.16	Vendor Defined Extended Message		P
6.6	Timers		F
6.6.1	CRCReceiveTimer		P
6.6.2	SenderResponseTimer		P
6.6.3	Capability Timers		P
6.6.4	Wait Timers and Times		P
6.6.5	Power Supply Timers		P
6.6.6	NoResponseTimer		P
6.6.7	BIST Timers		N/A
6.6.8	Power Role Swap Timers		P
6.6.9	Soft Reset Timers		P
6.6.10	Data Reset Timers		P
6.6.11	Hard Reset Timers		P
6.6.12	Structured VDM Timers		P
6.6.13	Vconn Timers		P
6.6.14	tCableMessage		P
6.6.15	DiscoveridentityTimer		P
6.6.16	Collision Avoidance Timers		P
6.6.17	Fast Role Swap Timers		P
6.6.18	Chunking Timers		P
6.6.19	Programmable Power Supply Timers		P
6.6.20	tEnterUSB		P
6.6.21	EPR Timers		P
6.6.22	Time Values and Timers		P
6.7	Counters		N/A
6.7.1	MessageID Counter		P
6.7.2	Retry Counter		P
6.7.3	Hard Reset Counter		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.7.4	Capabilities Counter		P
6.7.5	Discover Identity Counter		P
6.7.6	VDMBusyCounter		N/A
6.7.7	Counter Values and Counters		P
6.8	Reset		P
6.8.1	Soft Reset and Protocol Error		P
6.8.2	Data Reset		P
6.8.3	Hard Reset		P
6.8.4	Cable Reset		P
6.9	Collision Avoidance		N/A
6.10	Message Discarding		N/A
6.11	State behavior		N/A
6.11.1	Introduction to state diagrams used in Chapter 6		N/A
6.11.2	State Operation		N/A
6.11.3	List of Protocol Layer States		N/A
6.12	Message Applicability		P
6.12.1	Applicability of Control Messages		P
6.12.2	Applicability of Data Messages		P
6.12.3	Applicability of Extended Messages		P
6.12.4	Applicability of Extended Control Messages		P
6.12.5	Applicability of Structured VDM Commands		P
6.12.6	Applicability of Reset Signaling		P
6.12.7	Applicability of Fast Role Swap signal		P
6.13	Value Parameters		P
7	Power supply		P
7.1	Source Requirements		P
7.1.1	Behavioral Aspects		P
7.1.2	Source Bulk Capacitance		P
7.1.3	Types of Sources		P
7.1.4	Source Transitions		P
7.1.5	Response to Hard Resets		P
7.1.6	Changing the Output Power Capability		P
7.1.7	Robust Source Operation		P
7.1.8	Output Voltage Tolerance and Range		P
7.1.9	Charging and Discharging the Bulk Capacitance on VBUs		P





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Clause	Requirement + Test	Result - Remark	Verdict
7.1.10	Swap Standby for Sources		P
7.1.11	Source Peak Current Operation		P
7.1.12	Source Capabilities Extended Parameters		P
7.1.13	Fast Role Swap		P
7.1.14	Non-application of VBus Slew Rate Limits		P
7.1.15	Vconn Power Cycle		P
7.2	Sink Requirements		P
7.2.1	Behavioral Aspects		P
7.2.2	Sink Bulk Capacitance		P
7.2.3	Sink Standby		P
7.2.4	Suspend Power Consumption		P
7.2.5	Zero Negotiated Current		P
7.2.6	Transient Load Behavior		P
7.2.7	Swap Standby for Sinks		P
7.2.8	Sink Peak Current Operation		P
7.2.9	Robust Sink Operation		P
7.2.10	Fast Role Swap		P
7.3	Transitions		P
7.3.1	Increasing the Current		P
7.3.2	Increasing the Voltage		P
7.3.3	Increasing the Voltage and Current		P
7.3.4	Increasing the Voltage and Decreasing the Current		P
7.3.5	Decreasing the Voltage and Increasing the Current		P
7.3.6	Decreasing the Current		P
7.3.7	Decreasing the Voltage		P
7.3.8	Decreasing the Voltage and the Current		P
7.3.9	Sink Requested Power Role Swap		P
7.3.10	Source Requested Power Role Swap		P
7.3.11	GotoMin Current Decrease		P
7.3.12	Source Initiated Hard Reset		P
7.3.13	Sink Initiated Hard Reset		P
7.3.14	No change in Current or Voltage		P
7.3.15	Fast Role Swap		P
7.3.16	Increasing the Programmable Power supply (PPs) Voltage		P



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Clause	Requirement + Test	Result - Remark	Verdict
7.3.17	Decreasing the Programmable Power Supply (PPS) Voltage		P
7.3.18	Increasing the Adjustable Voltage Supply (AVS) Voltage1		N/A
7.3.19	Decreasing the Adjustable Voltage Supply (AVs) Voltage		N/A
7.3.20	Changing the Source PDO or APDO		P
7.3.21	Increasing the Programmable Power Supply Current		P
7.3.22	Decreasing the Programmable Power Supply Current		P
7.3.23	Same Request Programmable Power Supply		P
7.4	Electrical Parameters		P
7.4.1	Source Electrical Parameters		P
7.4.2	Sink Electrical Parameters		P
7.4.3	Common Electrical Parameters		P
8	Device Policy		F
8.1	Overview		P
8.2	Device Policy ManagerA		P
8.2.1	Capabilities		P
8.2.2	System Policy		P
8.2.3	Control of Source/Sink		P
8.2.4	Cable Detection		P
8.2.5	Managing Power Requirements		P
8.2.6	Use of "Unconstrained Power" bit with Batteries and AC supplies		P
8.2.7	Interface to the Policy Engine		P
8.3	Policy Engine		P
8.3.1	Introduction		P
8.3.2	Atomic Message Sequence Diagrams		P
8.3.3	State Diagrams		P
9	States and Status Reporting		N/A
9.1	Overview		P
9.1.1	PDUSB Device and Hub Requirements		P
9.1.2	Mapping to USB Device States		P
9.1.3	PD Software Stack		P
9.1.4	PDUSB Device Enumeration		P
9.2	PD Specific Descriptors		P
9.2.1	USB Power Delivery Capability Descriptor		P



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Clause	Requirement + Test	Result - Remark	Verdict
9.2.2	Battery Info Capability Descriptor		P
9.2.3	PD Consumer Port Capability Descriptor		P
9.2.4	PD Provider Port Capability Descriptor		P
9.3	PD Specific Requests and Events		P
9.3.1	PD Specific Requests		P
9.4	PDUSB Hub and PDUSB Peripheral Device Requests		P
9.4.1	GetBatteryStatus		P
9.4.2	SetPDFeature		P
10	Power Rules		P
10.1	Introduction		P
10.2	Source Power Rules		P
10.2.1	Source Power Rule Considerations		P
10.2.2	Normative Voltages and Currents		P
10.2.3	Optional Voltages/Currents		P
10.2.4	Power sharing between ports		P
10.3	Sink Power Rules		P
10.3.1	Sink Power Rule Considerations		P
10.3.2	Normative Sink Rules		P





Annex A Test Data

USB Power Delivery

Compliance Test	Reference spec.	Result	Description
TEST.PD.PHY.ALL.01 Transmit Bit Rate and the Drift	EN IEC 62680-1-2 Cl. 5.8.4	Pass	
TEST.PD.PHY.ALL.02 Transmitter Eye Diagram	EN IEC 62680-1-2 Cl. 5.8.2	Pass	
TEST.PD.PHY.ALL.03 Collision Avoidance	EN IEC 62680-1-2 Cl. 5.7	Pass	
TEST.PD.PHY.ALL.04 Bus Idle Detection (AWG method)	EN IEC 62680-1-2 Cl. 5.7	Pass	
TEST.PD.PHY.ALL.04 Bus Idle Detection (2-Tone method)	EN IEC 62680-1-2 Cl. 5.7	Pass	
TEST.PD.PHY.ALL.05 Receiver Interference Rejection (AWG method)	EN IEC 62680-1-2 Cl. 5.8.6	Pass	
TEST.PD.PHY.ALL.05 Receiver Interference Rejection (2-Tone method)	EN IEC 62680-1-2 Cl. 5.8.6	Pass	
TEST.PD.PHY.ALL.06 Invalid SOP*	EN IEC 62680-1-2 Cl. 5.6.1	Pass	
TEST.PD.PHY.ALL.07 Valid SOP*	EN IEC 62680-1-2 Cl. 5.6.1	Pass	
TEST.PD.PHY.ALL.08 Incorrect CRC	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PHY.ALL.09 Receiver Input Impedance	EN IEC 62680-1-2 Cl. 5.8.6	Pass	
TEST.PD.PHY.PORT.01 Invalid Reset Signals	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.ALL.01 Corrupted GoodCRC	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PROT.ALL.02 Soft Reset and Hard Reset	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.ALL.03 Soft Reset Response	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.ALL.04 Reset Signals and MessageID	EN IEC 62680-1-2 Cl. 6.2.1	Pass	
TEST.PD.PROT.ALL.05 Unrecognized Message	EN IEC 62680-1-2 Cl. 6.4	Pass	
TEST.PD.PROT.ALL3.01 Get_Status Response	EN IEC 62680-1-2 Cl. 6.3.18	Pass	
TEST.PD.PROT.ALL3.02 Get_Manufacturer_Info Response	EN IEC 62680-1-2 Cl. 6.5.7	Pass	
TEST.PD.PROT.ALL3.03 Invalid Manufacturer Info Target	EN IEC 62680-1-2 Cl. 6.5.7	Pass	
TEST.PD.PROT.ALL3.04 Invalid Manufacturer Info Ref	EN IEC 62680-1-2 Cl. 6.5.7	Pass	
TEST.PD.PROT.ALL3.05 Chunked Extended Message Response	EN IEC 62680-1-2 Cl. 6.2.1	Pass	



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Annex A Test Data

Compliance Test	Reference spec.	Result	Description
TEST.PD.PROT.ALL3.06 ChunkSenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.18	Pass	
TEST.PD.PROT.ALL3.07 Security Messages Supported	EN IEC 62680-1-2 Cl. 6.5.8	Pass	
TEST.PD.PROT.ALL3.08 Get Revision Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.01 Get_Battery_Status Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.02 Invalid Battery Status Reference	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.03 Get_Battery_Cap Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.04 Invalid Battery Capabilities Reference	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.05 Get_Country_Codes Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.06 Get_Country_Info Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.07 Unchunked_Extended_Messages_ Supported	EN IEC 62680-1-2 Cl.6.4.2	Pass	
TEST.PD.PROT.SRC.01 Get_Source_Cap Response	EN IEC 62680-1-2 Cl. 6.3.8	Pass	
TEST.PD.PROT.SRC.02 Get_Source_Cap No Request	EN IEC 62680-1-2 Cl. 6.3.7	Pass	
TEST.PD.PROT.SRC.03 SenderResponseTimer Deadline	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SRC.04 Reject Request	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SRC.05 Reject Request Invalid Object Position	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SRC.06 Atomic Message Sequence - Request	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SRC.07 DR_Swap	EN IEC 62680-1-2 Cl. 6.6.5	Pass	
TEST.PD.PROT.SRC.08 VCONN_Swap Response	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.09 PR_Swap Response	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.10 PR_Swap - PSSourceOnTimer Timeout	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.11 Unexpected Message Received in Ready State	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.12	EN IEC 62680-1-2 Cl. 6.6.5	Pass	





Annex A Test Data

Compliance Test	Reference spec.	Result	Description
Get_Sink_Cap Response			
TEST.PD.PROT.SRC.13 PR_Swap ~C GoodCRC not sent in Response to PS_RDY	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SRC3.01 SourceCapabilityTimer Timeout	EN IEC 62680-1-2 Cl. 6.3.17	Pass	
TEST.PD.PROT.SRC3.02 SenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SRC3.03 Get_Source_Cap_Extended Response	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SRC3.04 Alert Response Source Input Change	EN IEC 62680-1-2 Cl. 6.3.13	Pass	
TEST.PD.PROT.SRC3.05 Alert Response Battery Status Change	EN IEC 62680-1-2 Cl. 6.4.1	Pass	
TEST.PD.PROT.SRC3.06 Soft_Reset Sent when SinkTxOK	EN IEC 62680-1-2 Cl. 6.2.1	Pass	
TEST.PD.PROT.SRC3.07 Get_PPS_Status Response	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PROT.SRC3.08 SourcePPSCCommTimer Deadline	EN IEC 62680-1-2 Cl.6.6.19	Pass	
TEST.PD.PROT.SRC3.09 SourcePPSCCommTimer Timeout	EN IEC 62680-1-2 Cl.6.6.19	Pass	
TEST.PD.PROT.SRC3.10 SourcePPSCCommTimer Stopped	EN IEC 62680-1-2 Cl.6.6.19	Pass	
TEST.PD.PROT.SRC3.11 GoodCRC Specification Revision Compatibility	EN IEC 62680-1-2 Cl.6.2.1	Pass	
TEST.PD.PROT.SRC3.12 FR_Swap Without Signaling	EN IEC 62680-1-2 Cl.6.3.19	Pass	
TEST.PD.PROT.SRC3.13 Cable Type Detection	EN IEC 62680-1-2 Cl.4.4	Pass	
TEST.PD.PROT.SRC3.14 Source Info	EN IEC 62680-1-2 Cl.6.3.23	Pass	
TEST.PD.PROT.SNK.01 Get_Sink_Cap Response	EN IEC 62680-1-2 Cl. 6.3.8	Pass	
TEST.PD.PROT.SNK.02 Get_Source_Cap Response	EN IEC 62680-1-2 Cl. 6.3.7	Pass	
TEST.PD.PROT.SNK.03 SinkWaitCapTimer Deadline	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SNK.04 SinkWaitCapTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SNK.05 SenderResponseTimer Deadline	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SNK.06 SenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.2	Pass	



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Annex A Test Data

Compliance Test	Reference spec.	Result	Description
TEST.PD.PROT.SNK.07 PSTransitionTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.5	Pass	
TEST.PD.PROT.SNK.08 Atomic Message Sequence "C Accept	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.09 Atomic Message Sequence - PS_RDY	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.10 DR_Swap Request	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.11 VCONN_Swap Request	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.12 PR_Swap - PSSourceOffTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.5	Pass	
TEST.PD.PROT.SNK.13 PR_Swap - Request SenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SNK.14 Valid Use of GoodCRC on Power up	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.SNK3.01 Get_Source_Cap_Extended	EN IEC 62680-1-2 Cl. 6.3.17	Pass	
TEST.PD.PROT.SNK3.02 Alert Response Source Input Change	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SNK3.03 Alert Response Battery Status Change	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SNK3.04 Soft_Reset Sent Regardless of Rp Value	EN IEC 62680-1-2 Cl. 6.3.13	Pass	
TEST.PD.PROT.SNK3.05 Sink PPS Normal Operation	EN IEC 62680-1-2 Cl. 6.4.1	Pass	
TEST.PD.PROT.SNK3.06 Revision Number Test	EN IEC 62680-1-2 Cl. 6.2.1	Pass	
TEST.PD.PROT.SNK3.07 GoodCRC Specification Revision Compatibility	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PROT.SNK3.08 GotoMin Message	EN IEC 62680-1-2 Cl. 6.3.2	Pass	
TEST.PD.VDM.SRC.01 Discovery Process and Enter Mode	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SRC.02 Invalid Fields - Discover Identity	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.01 Discovery Process and Enter Mode	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.02 Exit Mode without Entering	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.05 DR Swap in Modal Operation	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.06 Structured	EN IEC 62680-1-2 Cl. 6.4.4	Pass	



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Annex A Test Data

Compliance Test	Reference spec.	Result	Description
VDM Revision Number Test			
TEST.PD.VDM.SNK.07 Unrecognized VID in Unstructured VDM	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.CBL.01 Discovery Process and Enter Mode	EN IEC 62680-1-2 Cl. 6.4.4	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'
TEST.PD.VDM.CBL3.01 Revision Number Test	EN IEC 62680-1-2 Cl. 6.4.4	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'
TEST.PD.PS.SRC.01 Multiple Request Load Test	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.02 PDO Transitions	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.03 Initial Source PDO Transition Post PR Swap	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.04 Source Behavior with Capability Mismatch bit	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.05 Source Hard Reset Test	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SNK.01 PDO Transitions As Sink	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SNK.02 Initial Sink PDO Transitions Post PR Swap	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SNK.03 Multiple Request Load Test Post PR Swap	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.EPR.SRC3.01 EPR Entry Process - UUT as VCONN Source	EN IEC 62680-1-2 Cl. 6.4.9, 6.4.10	Pass	
TEST.PD.EPR.SRC3.02 EPR Entry Process - Tester as VCONN Source	EN IEC 62680-1-2 Cl. 6.4.9	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.03 EPR Entry failed - EPR Mode Capable bit not set in RDO	EN IEC 62680-1-2 Cl. 6.4.9	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.04 EPR Entry failed "C Tester as VCONN source	EN IEC 62680-1-2 Cl. 6.4.9	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.05 EPR Entry Failed -	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with



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Annex A Test Data

Compliance Test	Reference spec.	Result	Description
EPR_Mode(Reserved) message			'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.06 Entry Failed - Cable not EPR capable	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.07 EPR Entry Failed - Interrupted by EPR_Get_Sink_Cap message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.08 EPR mode - Request message response	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.09 EPR mode - EPR_Get_Source_Cap message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.10 SPR mode - EPR_Get_Source_Cap message	EN IEC 62680-1-2 Cl. 6.4.9, 6.4.10	Pass	
TEST.PD.EPR.SRC3.11 EPR Mode Exit by EPR_Mode_Exit message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.12 EPR mode - Get_Source_Cap message and Request message response	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.13 EPR mode - tSourceEPRKeepAlive Timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.14 EPR mode - EPR Request with incorrect copy of PDO	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.15 DiscoverIdentityCounter and DiscoverIdentityTimer check for SOP	EN IEC 62680-1-2 Cl. 6.6.15	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.PS.EPR.SRC3.01 Multiple EPR Request Load Test	EN IEC 62680-1-2 Cl. 7.1	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.PS.EPR.SRC3.02 PDO Transitions in EPR Mode	EN IEC 62680-1-2 Cl. 7.3	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SNK3.01 EPR Entry	EN IEC 62680-1-2 Cl.	Pass	





Annex A Test Data

Compliance Test	Reference spec.	Result	Description
Process - Success	6.4.10		
TEST.PD.EPR.SNK3.02 EPR Entry Failed - tEnterEPR timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.03 EPR Entry Failed by EPR_Mode(Enter failed) message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.04 EPR Fail due to tFirstSourceCap timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.05 EPR Exit due to incorrect EPR Source Cap	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.06 EPR Exit due to EPR_Mode Exit message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.07 EPR_Fail_by_Wait_Message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.08 EPR Exit due to Source Cap	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.09 EPR Entry failed due to SourceCap	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.10 EPR Exit fail due to SinkWaitCapTimer timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.FRS.SRC3.01 Normal Conditions	EN IEC 62680-1-2 Cl. 7.1.13	N/A	This is not applicable because 'Power_Interruption_Available' is 'No Interruption Possible'.
TEST.PD.FRS.SRC3.02 Provider Only Checks	EN IEC 62680-1-2 Cl. 7.1.13	N/A	Valid PD_PORT_TYPE for this TD : "Provider Only"
TEST.PD.FRS.SRC3.03 GoodCRC Not Sent In Response To Accept	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_CURRENT_AS_INITIAL_SOURCE = FR_Swap not supported.
TEST.PD.FRS.SRC3.04 GoodCRC Not Sent In Response To PS_RDY	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_CURRENT_AS_INITIAL_SOURCE = FR_Swap not supported.



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Annex A Test Data

Compliance Test	Reference spec.	Result	Description
TEST.PD.FRS.SRC3.05 PSSourceOnTimer Deadline	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_C URRENT_AS_INITIAL_SOURCE = FR_Swap not supported.
TEST.PD.FRS.SRC3.06 PSSourceOnTimer Timeout	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_C URRENT_AS_INITIAL_SOURCE = FR_Swap not supported.
TEST.PD.FRS.SNK3.01 Normal Conditions	EN IEC 62680-1-2 Cl. 7.2.10	Pass	
TEST.PD.FRS.SNK3.02 Normal Conditions, Consumer Only	EN IEC 62680-1-2 Cl. 7.2.10	N/A	Valid PD_PORT_TYPE for this TD : "Consumer Only"
TEST.PD.FRS.SNK3.03 FR_Swap Not Sent	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.04 SendResponseTimer Timeout	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.05 PSSourceOffTimer Deadline	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.06 PSSourceOffTimer Timeout	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.07 GoodCRC Not Sent in Response to PS_RDY	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.USB4.DRST.01 Data_Reset command response of UFP UUT	EN IEC 62680-1-2 Cl. 6.3.14	Pass	
TEST.PD.USB4.DRST.02 Data_Reset command response of UFP UUT, Invalid Sequence	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.03 Data_Reset command response of UFP UUT Sourcing Vconn	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.04 Data_Reset command response of UFP UUT Sourcing Vconn - Invalid Sequence	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.05 Data_Reset command response of DFP UUT Sourcing Vconn	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.06 Data_Reset command response of	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' =



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Annex A Test Data

Compliance Test	Reference spec.	Result	Description
DFP UUT, UFP Sourcing Vconn			'YES'.
TEST.PD.USB4.DRST.07 Data_reset command response of DFP UUT, UFP Sourcing VconnVCONNDISCHARGE timer expiry check	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.EUSB.01 Enter_USB Message response of UFP UUT-Valid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any PUT with 'USB4_UFP_SUPPORTED' = 'YES'.
TEST.PD.USB4.EUSB.02 Enter_USB Message response of UFP UUT-Invalid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any PUT with 'USB4_UFP_SUPPORTED' = 'YES'.
TEST.PD.USB4.EUSB.03 Enter_USB Flow-USB4 DFP Connected to USB4 UFP using an Active Cable	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any device with 'USB4_DFP_Supported' = 'YES'
TEST.PD.USB4.EUSB.04 DR_Swap after Entering USB4 Mode entry	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any device with 'USB4_DFP_Supported' = 'YES'
TEST.PD.USB4.EUSB.05 tEnterUSBWait check for USB4 DFP	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any device with 'USB4_DFP_Supported' = 'YES'
TEST.PD.USB4.CBL.01 Enter_USB command response of cable UUT-Valid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'
TEST.PD.USB4.CBL.02 Enter_USB command response of Cable UUT-Invalid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'





Annex B

Photo Documentation



Figure 1 External view

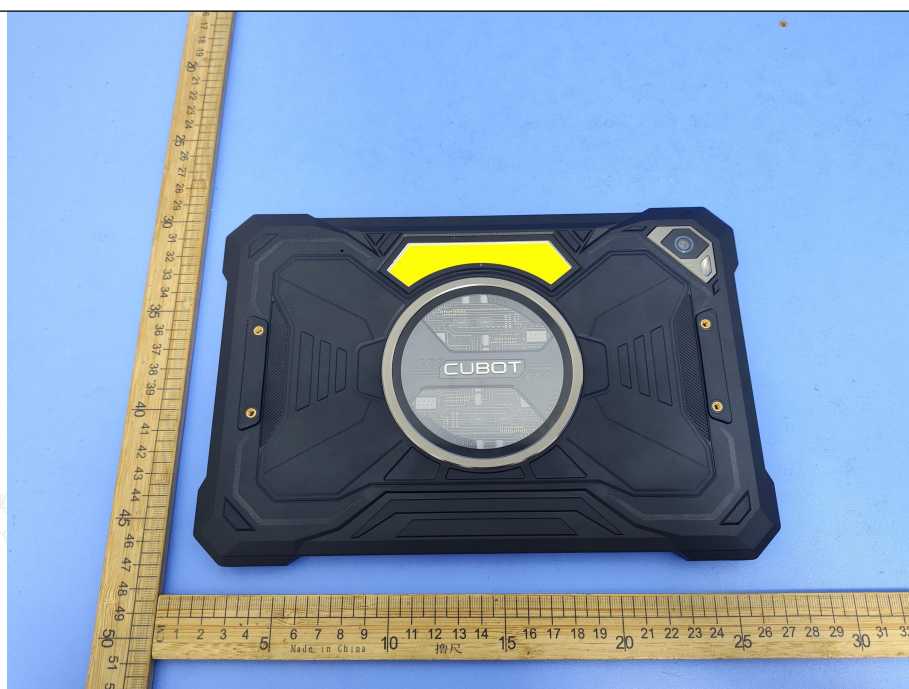


Figure 2 External view





Annex B

Photo Documentation



Figure 3 External view



Figure 4 External view



Annex B

Photo Documentation



Figure 5 External view



Figure 6 External view



Annex B

Photo Documentation



Figure 7 Internal view

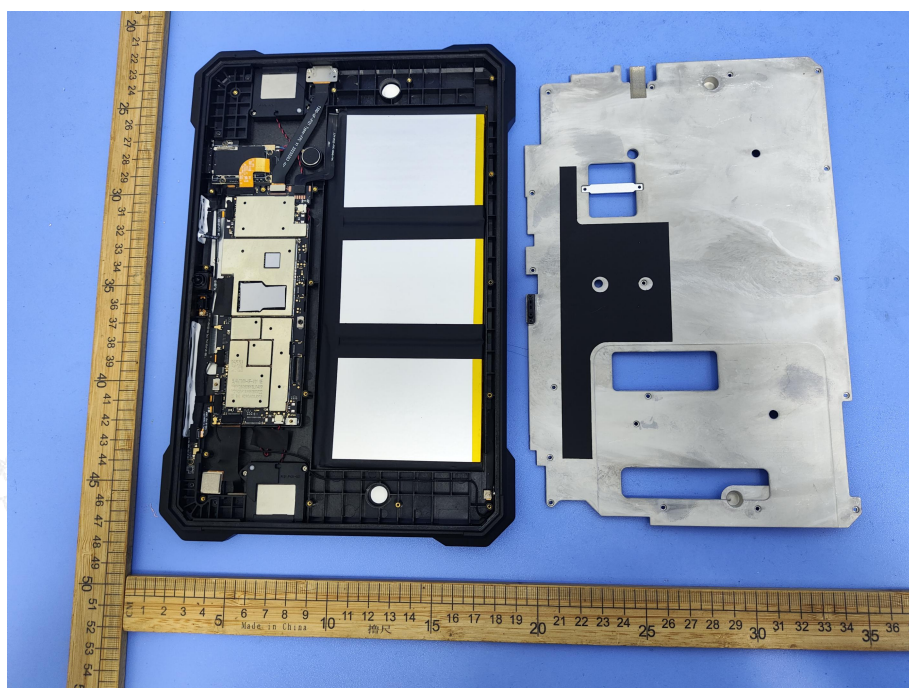


Figure 8 Internal view



Annex B

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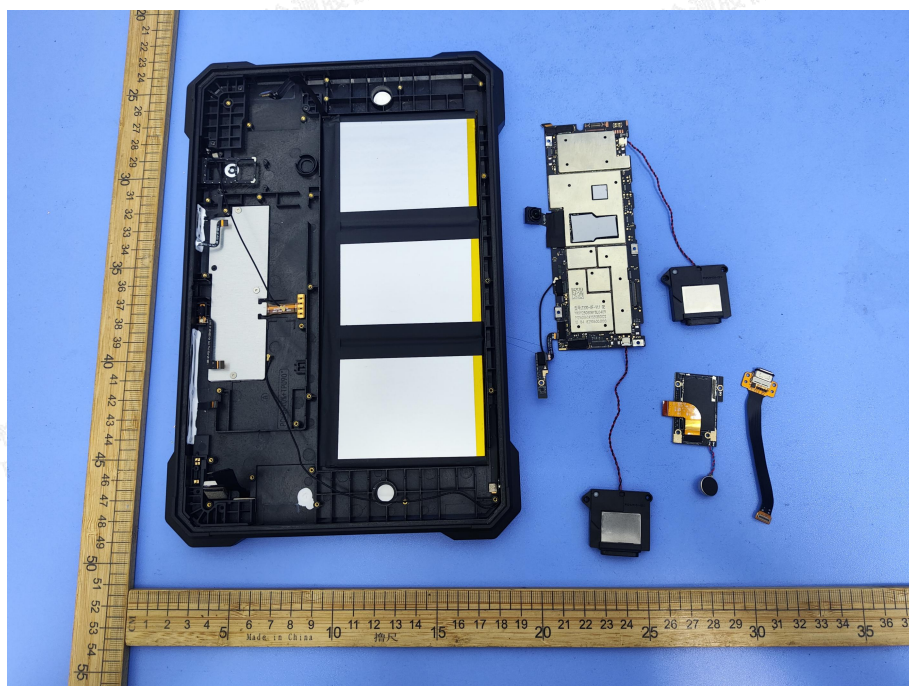


Figure 9 Internal view

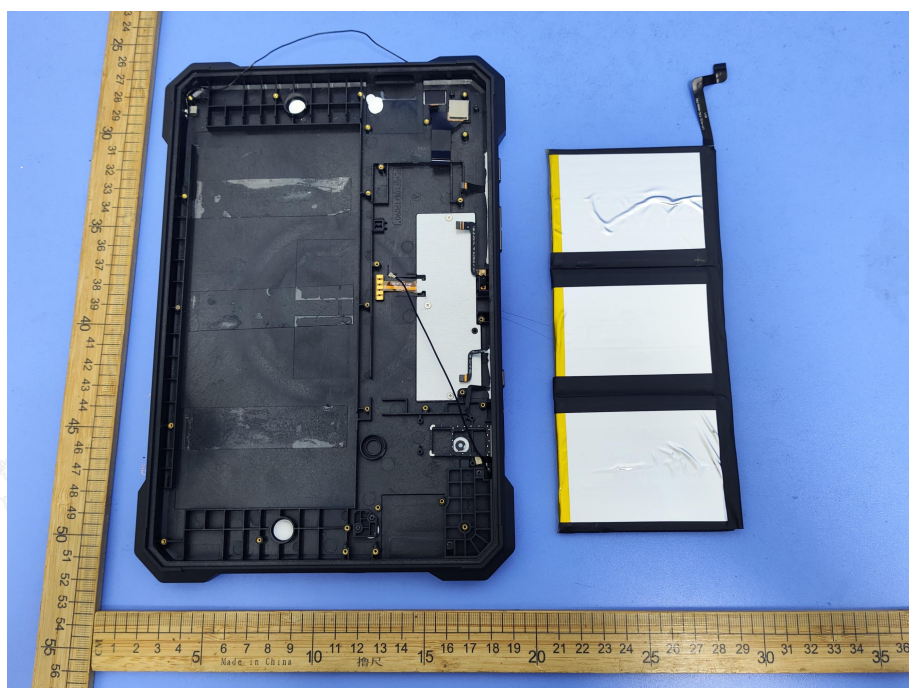


Figure 10 Internal view





Annex B

Photo Documentation

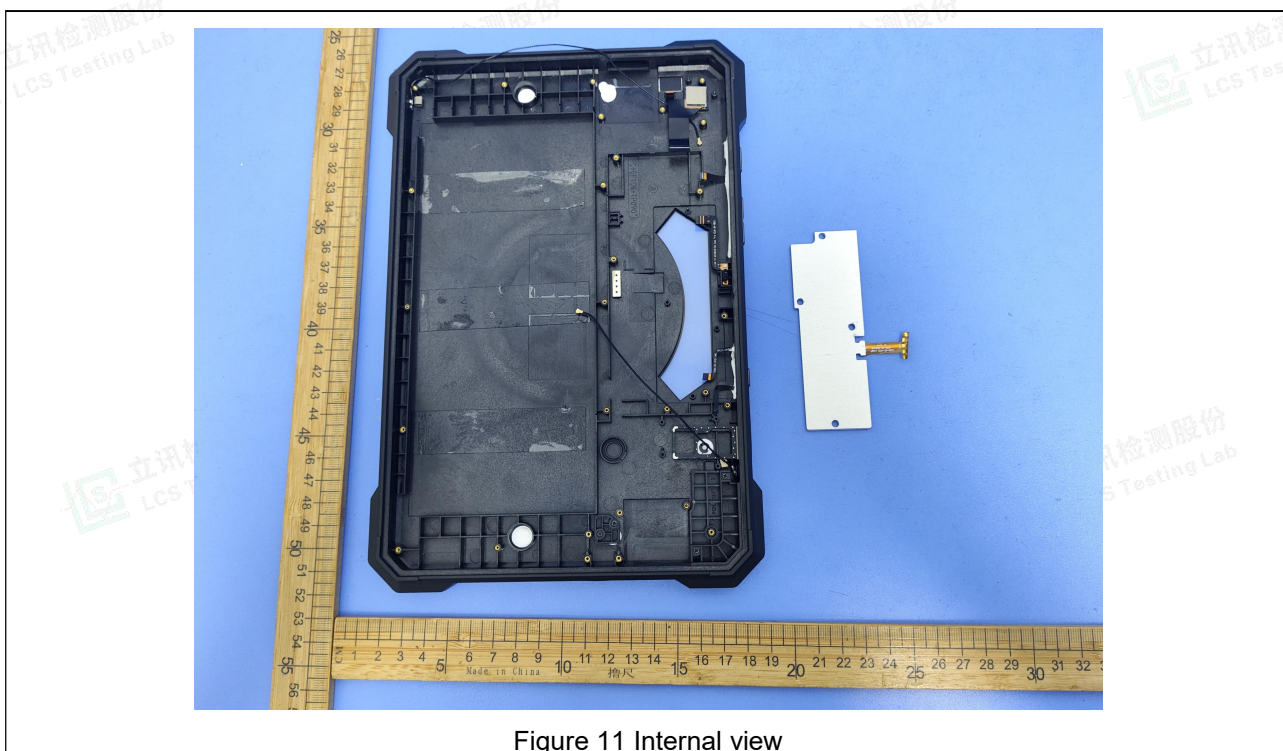


Figure 11 Internal view

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