

Test Report

Report No.: cqasz170401373E-03

Test Description: Bluetooth Profile Interoperability Test Report for A2DP **BLUETOOTH® HEADSET Product/Design Name:** Product/Design ID: \$570, $Sxy0(x=5\sim6,y=0\sim9)$, $Kx,(x=1\sim30)$, S530PLUS, $S8xy,(x=0\sim3,y=0\sim9)$, Xy,(y=6~30), S520-TWS, S530PLUS-TWS, S560-TWS, S570-TWS, S590-TWS, Xz-TWS,(z=5~20), EW-BE002, EW-BE010, EW-BE011, EW-BE013, **EW-ZR030 Trademark:** Applicant: Shenzhen KeYueDuo Intelligent Electronics Co., Ltd. Manufacturer: Shenzhen KeYueDuo Intelligent Electronics Co., Ltd. **Test Specification:** Bluetooth Profile Specification Version 1.2 - Advanced Audio **Distribution Profile Bluetooth Advanced Audio Distribution Profile Test Specification:** A2DP.TS.1.3.1.0 Test Report Prepared by..... Name Aaron Wu Test Report Reviewed by..... Name Owen Zhou

Bluetooth® Profile Interoperability Test Report

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Issue Date: 2017-05-25



1 General Information

1.1 General

1.1.1 Administrative data of Test Facility

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1.1.2 Administrative data of Applicant

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1.1.3 Administrative da	ata of EUT Manufacturer
EUT Manufacturer:	Shenzhen KeYueDuo Intelligent Electronics Co., Ltd.
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1.2 Description of EUT

Product name: BLUETOOTH® HEADSET

Product description: BLUETOOTH® HEADSET

Product ID/Model: S570, Sxy0(x=5 $^{\circ}6$,y=0 $^{\circ}9$), Kx,(x=1 $^{\circ}30$), S530PLUS, S8xy,(x=0 $^{\circ}3$,y=0 $^{\circ}9$),

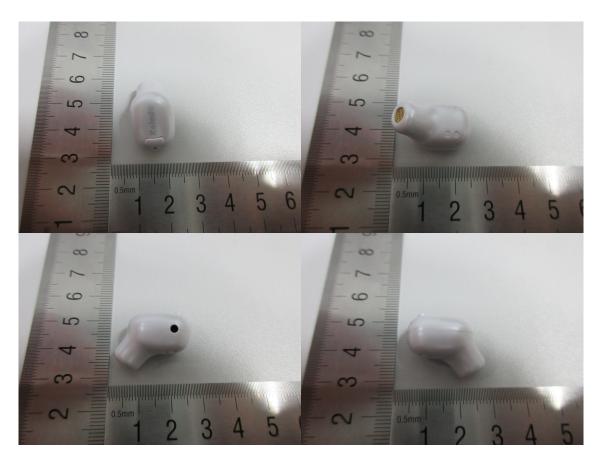
 $Xy,(y=6\sim30)$, S520-TWS, S530PLUS-TWS, S560-TWS, S570-TWS, S590-TWS, $Xz-TWS,(z=5\sim20)$, EW-BE002, EW-BE010, EW-BE011, EW-BE013,

EW-ZR030

Hardware Version: V1.1

Software Version: V1.1

Photos of Product:





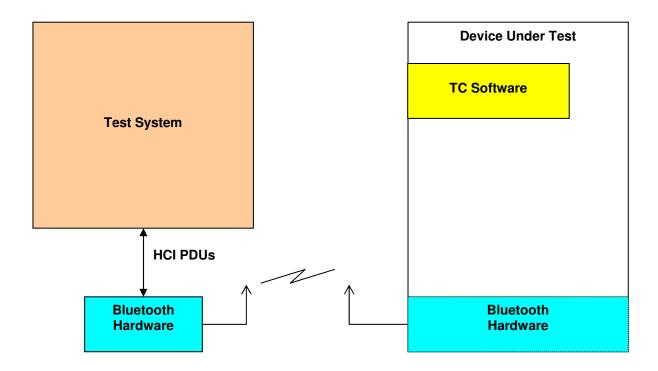
2 Summary List of All Test Cases

		Advanced Audio Distribution Profile		
No	TC identifier	Description	Verdict	Comments
1	TP/SET/BV-01-I	Est. Connect SRC	Pass	Refer to PTS
2	TP/SET/BV-02-I	Est. Connect SNK	N/A	
3	TP/SET/BV-03-I	Start Stream SRC	Pass	Refer to PTS
4	TP/SET/BV-04-I	Start Stream SNK	N/A	
5	TP/SET/BV-05-I	Restart Stream SRC	Pass	Refer to PTS
6	TP/SET/BV-06-I	Restart Stream SNK	N/A	
7	TP/REL/BV-01-I	Release Stream SRC	Pass	Refer to PTS
8	TP/REL/BV-02-I	Release Stream SNK	N/A	
9	TP/SUS/BV-01-I	Suspend Stream - SRC	Pass	Refer to PTS
10	TP/SUS/BV-02-I	Suspend Stream SNK	N/A	
11	TP/AS/BV-01-I	Streaming - SBC	Pass	Refer to PTS
12	TP/AS/BV-02-I	Streaming - Options	N/A	
13	TP/AS/BV-03-I	Optional and SBC Streaming - SRC	N/A	
14	TP/SC/BV-01-C	SBC Conformance - Decoder	N/A	
15	TP/SC/BV-02-C	SBC Conformance - Encoder	N/A	
16	TP/SDP/BV-01-I	SDP Interoperability SRC	N/A	
17	TP/SDP/BV-02-I	SDP Interoperability SNK	Pass	Refer to PTS
18	TP/CC/BV-01-I	Configurations SNK Decoder	Pass	Refer to PTS
19	TP/CC/BV-02-I	Configurations SNK Decoder	Pass	Refer to PTS
20	TP/CC/BV-03-I	Configurations SNK Decoder	Pass	Refer to PTS
21	TP/CC/BV-04-I	Configurations SNK Decoder	Pass	Refer to PTS
22	TP/CC/BV-05-I	Configurations SNK Decoder	Pass	Refer to PTS
23	TP/CC/BV-06-I	Configurations SNK Decoder	Pass	Refer to PTS
24	TP/CC/BV-07-I	Configurations SNK Decoder	Pass	Refer to PTS
25	TP/CC/BV-08-I	Configurations SNK Decoder	Pass	Refer to PTS
26	TP/CC/BV-09-I	Configurations SRC Decoder	N/A	
27	TP/CC/BV-10-I	Configurations SRC Decoder	N/A	
28	TP/SYN/BV-01-I	Delay Reporting with VDP video playback	N/A	
29	TP/SYN/BV-02-I	Delay Reporting with local video playback	N/A	
30	TP/SYN/BV-01-C	Delay Value	N/A	



3 Profile Testing

3.1 Description of Test Set-up



The Test System PTS for Bluetooth is running on a PC System.

The test system communicates with the Bluetooth Hardware via an HCI connection.

The tests are performed as remote tests and all communication between the Test System and the DUT is done via the radio interface.



3.2 List of Performed Test Cases

Profile: A2DP Role: ⊠ Sink ☐ Source

For Sink Role:

TC-Identifier	Final Verdict	Date of Test
TP/AS/BV-01-I	Pass	2017-05-09
TP/CC/BV-01-I	Pass	2017-05-09
TP/CC/BV-02-I	Pass	2017-05-09
TP/CC/BV-03-I	Pass	2017-05-09
TP/CC/BV-04-I	Pass	2017-05-09
TP/CC/BV-05-I	Pass	2017-05-09
TP/CC/BV-06-I	Pass	2017-05-09
TP/CC/BV-07-I	Pass	2017-05-09
TP/CC/BV-08-I	Pass	2017-05-09
TP/REL/BV-01-I	Pass	2017-05-09
TP/SDP/BV-02-I	Pass	2017-05-09
TP/SET/BV-01-I	Pass	2017-05-09
TP/SET/BV-03-I	Pass	2017-05-09
TP/SET/BV-05-I	Pass	2017-05-09
TP/SUS/BV-01-I	Pass	2017-05-09



3.3 Referenced Documents

Document Name	Version	Issue Date
Advanced Audio Distribution Profile Specification	V1.2	16 Apr 2007
Advanced Audio Distribution Profile (A2DP) 1.0-1.3 Test	A2DP.TS.1.3.1.2	13 Dec 2016
Suite Structure (TSS) and Test Purposes (TP)		
Profile ICS Proforma for Advanced Audio Distribution Profile	A2DP.ICS.1.3.1.1	14 Jul 2016
(A2DP) 1.0-1.3		
Test Case Reference List	2016-2	13 Dec 2016

3.4 Additional Information

The test results presented in this test report apply only to the particular implementation under test (IUT) Declared in clause 1.2 of this report, for the functionality described in the relevant Protocol Implementation Statement (PICS), as presented for test on the date(s) declared in the relevant Protocol Implementation Extra Information for testing (PIXIT).

This test report does not constitute or imply, by its own, to be an approval of the product by Qualification Bodies, Certification Bodies or competent Authorities.

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Abbreviations in this report: OK, Pass, P = passed

F = failed

N/A = not applicable NT = not tested

EUT = equipment under test

Explanation of model designation:

The applicant declared that models S570, Sxy0(x=5 6 ,y=0 9), Kx,(x=1 3 0), S530PLUS, S8xy,(x=0 3 ,y=0 9), Xy,(y=6 3 0), S520-TWS, S530PLUS-TWS, S560-TWS, S570-TWS, S590-TWS, Xz-TWS,(z=5 2 0), EW-BE010, EW-BE011, EW-BE013 and EW-ZR030 are identical in both design and implementation and differ only by non-functional characteristics. Tested model is S570.

3.5 Test Sample Information

The following sample was used for testing.

Sample No	Serial No/BT address	Date Of Reception
SZCR170508-01	0011671165DC	2017-05-08

3.6 List of Test Equipments

Profile Tuning Suite: PTS v. 7.0.0

A2DP-ETS v. 10.0.0.70 EZURIO 4.0 PTS Dongle



Annex 1 Profile Implementation Conformance Statement

TABLE OF CONTENTS

Role Declaration

Application Features

Source Implementation

Application Features

Sink Implementation

Role Declaration [top]

Table 0: Profile Version

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	A2DP 1.0	A2DP 1.0	C.1	•
2	A2DP 1.2	A2DP 1.2	C.1	• •
3	A2DP 1.3	A2DP 1.3	C.1	•
4	A2DP 1.3.1	A2DP 1.3.1	C.1	0 •

C.1: Mandatory to support only one Profile Version.

Table 1: Roles

Item	Capability	System Spec Reference	Status	Supp [Yes] o	
1	Source (SRC)	2.2, A2DP Spec	C.1		•
2	Sink (SNK)	2.2, A2DP Spec	C.1	•	0

C.1: Mandatory to support at least one of the defined roles.



Table 4: A2DP Sink Features

Prerequisite: 1/2 Note - Published ICS: Table 7

Item	Capability	System Spec Reference	Status		port or [No]
1	Initiate Connection Establishment	4.1.1, GAVDP Spec	0		•
2	Accept Connection Establishment	4.1.1, GAVDP Spec	М	•	0
3	Initiate Start Streaming	4.1.2, GAVDP Spec	0		•
4	Accept Start Streaming	4.1.2, GAVDP Spec	М	•	
5	Receive Audio Stream	3.2.2, A2DP Spec	М	•	
6	Initiate Connection Release	4.1.3, GAVDP Spec	0	0	•
7	Accept Connection Release	4.1.3, GAVDP Spec	М	•	
8	Initiate Suspend	4.1.4, GAVDP Spec	0	0	•
9	Accept Suspend	4.1.4, GAVDP Spec	0	•	
10	SBC Decoder	4.3, A2DP Spec	M	•	0
10a	Decode and Forward Audio Stream	3.2.2, A2DP Spec	0	0	•
11	SBC Configurations in 16 KHz sampling frequency rate	6.6, A2DP Spec	0	•	0
12	SBC Configurations in 32 KHz sampling frequency rate	4.3.2.1, A2DP Spec	0	•	
13	SBC Configurations in 44.1 KHz sampling frequency rate	4.3.2.1, A2DP Spec	M	•	0
14	SBC Configurations in 48 KHz sampling frequency rate	4.3.2.1, A2DP Spec	M	•	
15	Delay Reporting	5.1.1.2, A2DP Spec 4.1.8, GAVDP Spec	C.1	0	•

C.1: Mandatory to support IF A2DP 0/3 (A2DP 1.3) OR A2DP 0/4 (A2DP 1.3.1) is supported, otherwise Excluded.

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Table 5: Supported codecs in SNK

Prerequisite: 1/2

Note - Published ICS: Table 13

Item	Capability	System Spec Reference	Status		port or [No]
1	SBC decoder - D1 & D2	4.3, A2DP Spec, A2DP Test Spec	М	•	0
1a	Decode and Forward SBC Audio Stream	4.3 & Appendix B in A2DP Spec and Appendix A in TS	0	0	•
2	Optional codec decoder	4.2.2, 4.2.3, 4.4, A2DP Spec	0	0	•
3	MPEG-1, 2 Audio	4.4, A2DP Spec	C.1	0	•
4	MPEG-2, 4 AAC	4.5, A2DP Spec	C.1	0	•
5	ATRAC family	4.6, A2DP Spec	C.1	0	•
6	(Intentionally left blank)			0	•

C.1: Mandatory to support at least one implementation if 5/2 is supported, otherwise Excluded.



Table 5a: Supported Codec Features in SNK

Prerequisite: 5/1 Note - Published ICS: Table 13a

Item	Capability	System Spec Reference	Status		port or [No]
1	Channel Mode - Mono	4.3.2.2, A2DP Spec	M	•	0
2	Channel Mode - Dual Channel	4.3.2.2, A2DP Spec	M	•	0
3	Channel Mode - Stereo	4.3.2.2, A2DP Spec	М	•	0
4	Channel Mode - Joint Stereo	4.3.2.2, A2DP Spec	M	•	0
5	Block Length 4	4.3.2.3, A2DP Spec	М	•	0
6	Block Length 8	4.3.2.3, A2DP Spec	M	•	0
7	Block Length 12	4.3.2.3, A2DP Spec	М	•	0
8	Block Length 16	4.3.2.3, A2DP Spec	М	•	0
9	Subbands - 4	4.3.2.4, A2DP Spec	М	•	0
10	Subbands - 8	4.3.2.4, A2DP Spec	М	•	0
11	Allocation - SNR	4.3.2.5, A2DP Spec	М	•	0
12	Allocation - Loudness	4.3.2.5, A2DP Spec	М	•	0

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Annex 2 Test plan generated by TPG

Test Cases for A2DP						
TP/AS/BV-01-I	Verify that the audio streaming based on SBC format.	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:A			
TP/CC/BV-01-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-02-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-03-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-04-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-05-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-06-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-07-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/CC/BV-08-I	Configurations SNK Decoder	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:N/A			
TP/REL/BV-01-I	Verify that the audio stream connection is released by SRC.	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:A			
TP/SDP/BV-02-I	SDP Interoperability SRC	A2DP.TS.1.3.1.2	SNK IUT:B; SRC IUT:N/A			
TP/SET/BV-01-I	Verify that SRC can establish stream connection successfully.	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:A			
TP/SET/BV-03-I	Verify that SRC can start audio streaming.	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:A			
TP/SET/BV-05-I	Restart Stream SRC	A2DP.TS.1.3.1.2	SNK IUT:B; SRC IUT:B			
TP/SUS/BV-01-I	Verify that the audio streaming is suspended by SRC.	A2DP.TS.1.3.1.2	SNK IUT:A; SRC IUT:A			