

Products

Prüfbericht - Nr.: 14028203 001 Seite 1 von 15 Page 1 of 15 Test Report No.: Auftraggeber: **BARACODA Wireless Technology** Client: 36 rue de Turin 75008 Paris France Gegenstand der Prüfung: **Bluetooth Barcode Reader** Test Item: BDF-L2, BDF-LA, BDF-LC, Bezeichnung: Serien-Nr.: Engineering sample Identification: BiF-L, BiF-LA, BiF-LC Serial No .: Wareneingangs-Nr.: 00111003062-001 Eingangsdatum: 03.10.2011 Receipt No .: Date of Receipt: Prüfort: TÜV Rheinland Hong Kong Ltd. Testing Location: 8/F., Niche Centre, 14 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong Hong Kong Productivity Council HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong Prüfgrundlage: FCC Part 15 Subpart C Test Specification: ANSI C63.4-2003 CISPR 22:1997 Prüfergebnis: Das vorstehend beschriebene Gerät wurde geprüft und entspricht oben Test Results: genannter Prüfgrundlage. The above mentioned product was tested and passed. Prüflaboratorium: TÜV Rheinland Hong Kong Ltd. Testing Laboratory: 8 - 10/F., Goldin Financial Global Square, 7 Wang Tai Road, Kowloon Bay Kowloon, Hong Kong geprüft/ tested by: kontrolliert/ reviewed by: Joey Leung Sharon Li 23.11.2011 Test Engineer 23.11.2011 Assistant Manager Datum Name/Stellung Unterschrift Datum Name/Stellung Unterschrift Name/Position Date Signature Date Name/Position Signature Sonstiges: FCCID: QSHAIBDF2 Other Aspects Abkürzungen: P(ass) entspricht Prüfgrundlage Abbreviations: P(ass) passed entspricht nicht Prüfgrundlage F(ail) F(ail) failed nicht anwendbar N/A N/A not applicable nicht getestet not tested Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht

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Product information

Manufacturers declarations

	Transceiver
Operating frequency range	2402 - 2480 MHz
Type of modulation	GFSK
Number of channels	79
Channel separation	1 MHz
Type of antenna	Integral
Antenna gain (dBi)	0
Power level	fix
Type of equipment	stand alone radio equipment
Connection to public utility power line	Yes
Nominal voltage	V _{nor} : 3.7 V
Independent Operation Modes	Page scan
	Inquiry scan
	Connection state - ACL Link
	Connection state - SPP Link

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Product function and intended use

The test item is a Bluetooth Barcode Reader based on the Bluetooth technology.

Bluetooth is a short-range radio link intended to be a cable replacement between portable and/or fixed electronic devices.

Bluetooth operates in the unlicensed ISM Band at 2.4 GHz. In the US a band of 83.5 MHz width is available. In this band, 79 RF channels spaced 1 MHz apart are defined.

The channel is represented by a pseudo-random hopping sequence through the 79 channels. The channel is divided into time slots, with a nominal slot length of $625\,\mu s$, where each slot corresponds to different RF hop frequencies. The nominal hop rate is 1600 hops/s. The symbol rate on the channel is 1 Ms/s.

Submitted documents

Circuit Diagram Block Diagram Bill of material User manual Label Artwork

Remark

Special accessories and auxiliary equipment

The product has been tested together with the following additional accessory:

Switching adaptor Model number: ADS-5N-06 05003G Input: 100-240VAC, 50/60Hz, 0.3A

Output: 5VDC 500mA

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List of Test and Measurement Instruments

Hong Kong Productivity Council (Registration number: 90656)

Radiated Emission

Equipment used	Manufacturer	Model No.	S/N	Due Date
Semi-anechoic Chamber	Frankonia	Nil	Nil	25-May-12
Test Receiver	R&S	ESU40	100190	26-May-12
Bi-conical Antenna	R&S	HK116	100242	05-May-13
Log Periodic Antenna	R&S	HL223	841516/020	06-May-13
Coaxial cable 50ohm	Rosenberger	RTK081-05S-05S- 10m	LA2-001-10M / 001	08-Dec-11
Microwave amplifer 0.5- 26.5GHz, 25dB gain	HP	83017A	3950M00241	03-Oct-13
High Pass Filter (cutoff freq. =1000MHz)	Trilithic	23042	9829213	30-Oct-13
Horn Antenna	EMCO	3115	9002-3351	11-May-13
Active Loop Antenna	EMCO	6502	9107-2651	19-Apr-12
FSP30 Spectrum Analyzer	R&S	FSP30	10007/030	16-Sep-12

TÜV Rheinland Hong Kong Ltd.

Conducted Emission

Equipment used	Manufacturer	Model No.	S/N	Due Date
Test Receiver	R&S	ESCS30	100201	11-Jan-12
LISN	R&S	ESH3-Z5	100230	11-Jan-12

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Results FCC Part 15 - Subpart C

Subclause 15.203 – Antenna Information

Pass

Requirement:

No antenna other than that furnished by the responsible party shall be used with the

device

Results: Permanent attached antenna

Verdict: Pass

Subclause 15.204 – Antenna Information

Pass

Requirement: Provide information for every antenna proposed for the use with the EUT

Results: a) Antenna type:

PCB

b) Manufacturer and model no:

N.A.

c) Gain with reference to an isotropic radiator:

0 dBi

Verdict: Pass

Subclause 15.207 - Disturbance Voltage on AC Mains

Pass

Test Port: AC mains input port of the charger

Applied voltage: 120VAC

Adaptor Model: ADS-5N-06 05003G Mode of operation: Charging mode

Live measurement

Frequency range (MHz)	Frequency (MHz)	Quasi-peak dB _µ V	Average dBμV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0.15 0.5	0.156	54.8	43.8	66 - 56	56 - 46	Pass
0,15 – 0,5	0.444	41.4	26.0	66 - 56	56 - 46	Pass
> 0,5 - 5	1.599	34.2	19.8	56	46	Pass
> 5 - 30	No peak found			60	50	Pass

Neutral measurement

Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBμV	Average dBμV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0.15 0.5	0.162	52.8	37.6	66 - 56	56 - 46	Pass
0,15 – 0,5	0.456	45.4	32.3	66 - 56	56 - 46	Pass
> 0,5 - 5	1.458	35.2	23.3	56	46	Pass
> 5 - 30	No peak found			60	50	Pass

Results: The radio frequency voltage that is conducted back onto the AC power line on any

frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits.

For test Results plots refer to Appendix 1, page 2-3.

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Subclause 15.247 (a)(1) – Carrier Frequency Separation Pass

Requirement: Frequency hopping systems shall have hopping channel carrier frequencies separated

by a minimum of 25kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is

greater.

Test Specification: FCC Part 15 Subpart A - Subclause 15.31

Mode of operation : Tx mode (hopping on), GFSK

Port of testing : Temporary antenna port

Detector : Peak

RBW/VBW : 100 kHz / 300 kHz Supply voltage : 3.7VDC, internal battery

Temperature : 23°C Humidity : 50%

Results: Pre-scan has been conduced to determine the worst-case mode from all possible

combinations between available modulations and packet types.

The centre frequencies of the hopping channels are separated by more than the

2/3*20dB bandwidth. For test Results plots refer to Appendix 1, page 4.

Verdict: Pass

Subclause 15.247 (a)(1)(iii) – Number of hopping channels

Pass

Requirement: Frequency hopping systems operating in the 2400MHz-2483.5MHz bands shall use at

least 15 hopping frequencies.

Test Specification: FCC Part 15 Subpart A - Subclause 15.31

Mode of operation: Tx mode (hopping on), GFSK Port of testing: Temporary antenna port

Detector : Peak

RBW/VBW : 1 MHz / 3 MHz

Supply voltage : 3.7VDC, internal battery

Temperature : 23°C Humidity : 50%

Results: The total number of hopping frequencies is more than 15. For test Results plots refer to

Appendix 1, page 5.

Verdict: Pass

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Subclause 15.247 (a)(1)(iii) - Time of Occupancy (Dwell Time)

Pass

Requirement: Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15

channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels

employed.

Test Specification: FCC Part 15 Subpart A - Subclause 15.31

Mode of operation: Tx mode (hopping on), DH5 packet

Port of testing : Temporary antenna port

Detector : Peak

RBW/VBW : 1 MHz / 3 MHz

Supply voltage : 3.7VDC, internal battery

Temperature : 23°C Humidity : 50%

Results: Time period calculation = $0.4 \times 79 = 31.6s$

Dwell time = $64 \times 2.936 \times 10^{-3} = 187.904 \times 10^{-3}$

 $<= 400 \times 10^{-3} s$

For test protocols please refer to Appendix 1, page 6.

Verdict: Pass

Subclause 15.247 (a) - 20 dB Bandwidth

Pass

Requirement: Frequency hopping systems shall have hopping channel carrier frequencies separated

by a minimum of 25kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is

greater.

Test Specification: FCC Part 15 Subpart A - Subclause 15.31

Mode of operation: Tx mode (2402MHz, 2441MHz, 2480MHz), (GFSK)

Port of testing : Temporary antenna port

Detector : Peak

RBW/VBW : 30 kHz / 100 kHz

Supply voltage : 3.7VDC, internal battery

Temperature : 23°C Humidity : 50%

Results: Pre-scan has been conduced to determine the worst-case mode from all possible

combinations between available modulations and packet types.

For test protocols refer to Appendix 1, page 7-8.

GFSK Modulation

Frequency (MHz)	20 dB left (MHz)	20 dB right (MHz)	20dB bandwidth (MHz)
2402	0.462	0.468	0.930
2441	0.462	0.468	0.930
2480	0.462	0.468	0.930

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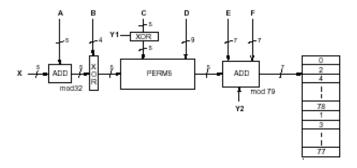
Subclause 15.247 (a) - Hopping Sequence

Pass

Requirement: The hopping sequence is generated and provided with an example.

Hopping sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master. The X input determines the phase in the 32-hop segment, whereas Y1 and Y2 selects between master-to-slave and slave-to-master transmission. The inputs A to D determine the ordering within the segment, the inputs E and F determine the mapping onto the hop frequencies.



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```
Example data:
Hop sequence {k} for CONNECTION STATE:
CLK start: 0x0000010
ULAP: 0x00000000
            00 02 | 04 06 | 08 0a | 0c 0e | 10 12 | 14 16 | 18 1a | 1c 1e |
#ticks:
0x0000010: 08 66 | 10 70 | 12 19 | 14 23 | 16 01 | 18 05 | 20 33 | 22 37 |
0x0000030: 24 03 | 26 07 | 28 35 | 30 39 | 32 72 | 34 76 | 36 25 | 38 29
0x0000050: 40 74 | 42 78 | 44 27 | 46 31 | 48 09 | 50 13 | 52 41 | 54 45
0x0000070: 56 11 | 58 15 | 60 43 | 62 47 | 32 17 | 36 19 | 34 49 | 38 51
0x0000090: 40 21 | 44 23 | 42 53 | 46 55 | 48 33 | 52 35 | 50 65 | 54 67
0x00000b0: 56 37 | 60 39 | 58 69 | 62 71 | 64 25 | 68 27 | 66 57 | 70 59
0x00000d0: 72 29 | 76 31 | 74 61 | 78 63 | 01 41 | 05 43 | 03 73 | 07 75
0x00000f0: 09 45 | 13 47 | 11 77 | 15 00 | 64 49 | 66 53 | 68 02 | 70 06
0x0000110: 01 51 | 03 55 | 05 04 | 07 08 | 72 57 | 74 61 | 76 10 | 78 14
0x0000130: 09 59 | 11 63 | 13 12 | 15 16 | 17 65 | 19 69 | 21 18 | 23 22
0x0000150: 33 67 | 35 71 | 37 20 | 39 24 | 25 73 | 27 77 | 29 26 | 31 30
0x0000170: 41 75 | 43 00 | 45 28 | 47 32 | 17 02 | 21 04 | 19 34 | 23 36
0x0000190: 33 06 | 37 08 | 35 38 | 39 40 | 25 10 | 29 12 | 27 42 | 31 44
0x00001b0: 41 14 | 45 16 | 43 46 | 47 48 | 49 18 | 53 20 | 51 50 | 55 52
0x00001d0: 65 22 | 69 24 | 67 54 | 71 56 | 57 26 | 61 28 | 59 58 | 63 60
0x00001f0: 73 30 | 77 32 | 75 62 | 00 64 | 49 34 | 51 42 | 57 66 | 59 74
0x0000210: 53 36 | 55 44 | 61 68 | 63 76 | 65 50 | 67 58 | 73 03 | 75 11
0x0000230: 69 52 | 71 60 | 77 05 | 00 13 | 02 38 | 04 46 | 10 70 | 12 78
0x0000250: 06 40 | 08 48 | 14 72 | 16 01 | 18 54 | 20 62 | 26 07 | 28 15
0x0000270: 22 56 | 24 64 | 30 09 | 32 17 | 02 66 | 06 74 | 10 19 | 14 27
0x0000290: 04 70 | 08 78 | 12 23 | 16 31 | 18 03 | 22 11 | 26 35 | 30 43
0x00002b0: 20 07 | 24 15 | 28 39 | 32 47 | 34 68 | 38 76 | 42 21 | 46 29
0x00002d0: 36 72 | 40 01 | 44 25 | 48 33 | 50 05 | 54 13 | 58 37 | 62 45
0x00002f0: 52 09 | 56 17 | 60 41 | 64 49 | 34 19 | 36 35 | 50 51 | 52 67
0x0000310: 38 21 | 40 37 | 54 53 | 56 69 | 42 27 | 44 43 | 58 59 | 60 75
0x0000330: 46 29 | 48 45 | 62 61 | 64 77 | 66 23 | 68 39 | 03 55 | 05 71
0x0000350: 70 25 | 72 41 | 07 57 | 09 73 | 74 31 | 76 47 | 11 63 | 13 00
0x0000370: 78 33 | 01 49 | 15 65 | 17 02 | 66 51 | 70 67 | 03 04 | 07 20
0x0000390: 68 55 | 72 71 | 05 08 | 09 24 | 74 59 | 78 75 | 11 12 | 15 28
0x00003b0: 76 63 | 01 00 | 13 16 | 17 32 | 19 53 | 23 69 | 35 06 | 39 22
0x00003d0: 21 57 | 25 73 | 37 10 | 41 26 | 27 61 | 31 77 | 43 14 | 47 30
0x00003f0: 29 65 | 33 02 | 45 18 | 49 34 | 19 04 | 21 08 | 23 20 | 25 24 I
```

Subclause 15.247 (a) - Equal Hopping Frequency Use

Pass

Requirement: Each of the transmitter's hopping channels is used equally on average.

Equal hopping frequency use

The EUT complies with the Bluetooth RF specifications. For details refer to the Bluetooth standard.

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Subclause 15.247 (a) - Receiver Input Bandwidth

Pass

Requirement:

The associated receiver(s) complies with the requirement that its input bandwidth matches the bandwidth of the transmitted signal

the bandwidth of the transmitted signal.

Receiver input bandwidth

The receiver bandwidth is equal to the receiver bandwidth in the 79 hopping channel mode, which is 1 MHz. The receiver bandwidth was verified during Bluetooth RF conformance testing.

Subclause 15.247 (a) – Receiver Hopping Capability

Pass

Requirement:

The associated receiver has the ability to shift frequencies in synchronisation with the

transmitted signals.

Receiver hopping Capability

The EUT complies with the Bluetooth RF specifications. For details refer to the Bluetooth standard.

Subclause 15.247 (b)(1) - Peak Output Power

Pass

Test Specification: FCC Part 15 Subpart A – Subclause 15.31 Mode of operation: Tx mode (2402MHz, 2441MHz, 2480MHz)

Port of testing : Temporary antenna port

Detector : Peak

RBW/VBW : 3 MHz / 10 MHz

Supply voltage : 3.7VDC, internal battery

Temperature : 23°C Humidity : 50%

Requirement: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at

least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 Watt. For all other frequency hopping systems in the 2400 – 2483.5 MHz band:

0.125 Watts.

Results: For test protocols please refer to Appendix 1, page 9-10.

GFSK Modulation

Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2402	1.02	3.52	4.540	1 / 30.0	Pass
2441	0.56	3.65	4.210	1 / 30.0	Pass
2480	0.41	3.60	4.010	1 / 30.0	Pass

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Subclause 15.247	(d) – Band edge compliance of conducted emissions	Pass
Mode of operation Port of testing Detector RBW/VBW Supply voltage Temperature	: FCC Part 15 Subpart A – Subclause 15.31 : Tx mode (2402MHz, 2480MHz), GFSK : Temporary antenna port : Peak : 100 kHz / 300 kHz : 3.7VDC, internal battery : 23°C : 50%	
Requirement:	In any 100 kHz bandwidth outside the frequency band in which the s digitally modulated intentional radiator is operating, the radio frequent produced by the intentional radiator shall be at least 20 dB below the bandwidth within the band that contains the highest level of the desir either an RF conducted or a radiated measurement.	icy power that is it in the 100 kHz
Results:	Pre-scan has been conduced to determine the worst-case mode from combinations between available modulations and packet types. There is no peak found outside any 100 kHz bandwidth of the operation for test protocols refer to Appendix 1, page 11-12.	·

Subclause 15.205	- Band edge compliance of radiated emissions	Pass
Mode of operation Port of testing Detector	: FCC Part 15 Subpart A – Subclause 15.31 : Tx mode (2402MHz, 2480MHz), GFSK : Temporary antenna port : Peak : 1 MHz / 3 MHz : 3.7VDC, internal battery : 23°C : 50%	
Requirement:	Radiated emissions which fall in the restricted bans, as defined in 15.20 comply with the radiated emission limits specified in 15.209(a).	5 (a), must also
Results:	There is no peak found in the restricted bands. For test protocols refer t page 13-16.	o Appendix 1,

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2480

4950

Subclause 15.247	(d) – Spurious Cor	nducted Emissions	;	Pass		
	: FCC Part 15 Subpart A – Subclause 15.31 : Tx mode (2402MHz, 2441MHz, 2480MHz), GFSK : Temporary antenna port : Peak : 100 kHz / 300 kHz : 3.7VDC, internal battery : 23 °C : 50 %					
Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Results:	Pre-scan has been conduced to determine the worst-case mode from all possible combinations between available modulations and packet types. There is no peak found outside any 100kHz bandwidth of the operating frequency band in the three transmit frequency. All three transmit frequency modes comply with the limit stated in subclause 15.247(d). For test protocols refer to Appendix 1, page 17-18.					
Operating	Spurious	Spurious Level	Reference value	Delta	Verdict	
frequency (MHz)	frequency (MHz)	(dBm)	(dBm)	(dB)		
2402	4800	-44.31	0.23	-44.54	Pass	
2441	4850	-40.60	-0.21	-40.39	Pass	

-39.77

-0.17

-39.60

Pass

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Subclause 15.247	' (c) – Spurious F	adiated Emissions	Pass		
	: ANSI C63.4 – 2003 i: Tx mode (2402MHz, 2441MHz, 2480MHz),GFSK : Enclosure : Peak : 100 kHz / 300 kHz for f < 1 GHz				
Supply voltage Temperature Humidity	1 MHz / 3 MHz f : internal batteries : 23°C : 50%	s has been activated			
Requirement:	level of the desir bands, as define	andwidth outside the frequency bar red power. In addition, radiated emi red in section15.205(a), must also co n section 15.205(c).	ssions which fall in the restricted		
Results:	Pre-scan has been conduced to determine the worst-case mode from all possible combinations between available modulations and packet types. All three transmit frequency modes comply with the field strength within the restribands. There is no spurious found below 30MHz.				
Tx frequency 2402	MHz	Vertical Polarization			
Fre MH	z	Level dBuV/m	Limit/ Detector dBuV/m		
4803. [°] 4804. [°]		52.73 37.33	74.0 / P 54.0 / A		
Tx frequency 2402	MHz	Horizontal Polarization			
Fre MH	z	Level dBuV/m	Limit/ Detector dBuV/m		
4803.5 4803.5		49.81 36.03	74.0 / P 54.0 / A		
Tx frequency 2441	Į.	Vertical Polarization	54.0 / A		
Fre MH 4881.	z	Level dBuV/m 52.25	Limit/ Detector dBuV/m 74.0 / P		
4882.0		37.20	54.0 / A		
Tx frequency 2441		Horizontal Polarization			
Fre MH	ž	Level dBuV/m	Limit/ Detector dBuV/m		
4881.731		51.26	74.0 / P		
4881.9	987	36.78	54.0 / A		
Tx frequency 2480	MHz	Vertical Polarization			
Fre		Level	Limit/ Detector		
MH		dBuV/m	dBuV/m		
4960.		51.24	74.0 / P		
4960.	UUU	35.95	54.0 / A		

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Tx frequency 2480MHz	Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4960.465	48.32	74.0 / P
4960.080	34.81	54.0 / A

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