

Produkte
Products

Prüfbericht - Nr.: 14038604 001			Seite 1 von 17		
<i>Test Report No.:</i>			<i>Page 1 of 17</i>		
Auftraggeber: <i>Client:</i>		Able Trend Technology Limited Unit 217, 2/F, Building 12W, Phase 3 Hong Kong Science Park Shatin, Hong Kong			
Gegenstand der Prüfung: <i>Test Item:</i>		WiFi module			
Bezeichnung: <i>Identification:</i>	AW6202	Serien-Nr.: <i>Serial No.:</i>	Engineering sample		
Wareneingangs-Nr.: <i>Receipt No.:</i>	A000180084-001, A000180084-002	Eingangsdatum: <i>Date of Receipt:</i>	31.03.2015, 09.04.2015		
Prüfort: <i>Testing Location:</i>	TÜV Rheinland Hong Kong Ltd. 8/F, First Group Centre, 14 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong Hong Kong Productivity Council HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>		Test samples are not damaged and suitable for testing.			
Prüfgrundlage: <i>Test Specification:</i>	FCC Part 15 Subpart C ANSI C63.4-2009				
Prüfergebnis: <i>Test Results:</i>	Das vorstehend beschriebene Gerät wurde geprüft und entspricht oben genannter Prüfgrundlage. The above mentioned product was tested and passed .				
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland Hong Kong Ltd. 8 - 10/F., Goldin Financial Global Square, 7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong				
geprüft/ tested by:		kontrolliert/ reviewed by:			
22.04.2015 Benny Lau Project Manager		22.04.2015 Sharon Li Department Manager			
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges: Other Aspects		FCC ID: 2AATFMA026WX			
Abkürzungen:		Abbreviations:			
P(ass) = entspricht Prüfgrundlage		P(ass) = passed			
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed			
N/A = nicht anwendbar		N/A = not applicable			
N/T = nicht getestet		N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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Product information

Manufacturers declarations

	Transceiver
Operating frequency range	2412 - 2462 MHz
Type of modulation	DSSS, OFDM, MCS0-7
Number of channels	11
Channel separation	5 MHz
Type of antenna	Chip Antenna
Antenna gain (dBi)	2.9 dBi
Power level	fix
Type of equipment	WIFI Module
Connection to public utility power line	No
Nominal voltage	V_{nor} : 3.3 Vdc
Independent Operation Modes	Transmitting mode

Product function and intended use

The equipment under test (EUT) is a WIFI module using Texas Instruments CC3200 802.11b/g/n WIFI network processor. It is fully available for application development and rich peripheral interfaces to support a wide variety of network connectivity-based applications such as Internet of Things. It is operating from 2412MHz to 2462MHz, it supports 11 frequency channels and 20MHz bandwidth only. It uses integral chip antenna. This module could only be used in mobile or fix device which minimum separation distance between the radiator and the user or by-stander is 20cm. It is powered by 3.3VDC.

FCC ID: 2AATFMA016WX

Models	Product description
AW6202	WIFI module

Submitted documents

Circuit Diagram
 Block Diagram
 Bill of material
 User manual
 Label

Independent Operation Modes

The basic operation modes are:

- WIFI transmit mode.

For further information refer to User Manual

Related Submittal(s) Grants

This is a single application for certification of the single-modular transmitter.

Remark

Nil

Test Set-up and Operation Mode

Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test Operation and Test Software

Test operation should refer to test methodology.

- Special software is provided by the grantee to set the device to operate in a fixed frequency channel and maximum RF output power level.
- Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.

Special Accessories and Auxiliary Equipment

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

- none

Supporting equipment:

- DC power supply model: Manson NP-9615 (provide by TÜV)

Countermeasures to achieve EMC Compliance

- none

Test Methodology

Radiated Emission

The radiated emission measurements were performed according to the procedures in ANSI C63.4-2009.

The equipment under test (EUT) was placed at the middle of the 80 cm height turntable, and the turntable is 3 meters far from the measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

$$FS = R + AF + CF + FA - PA$$

Where FS = Field Strength in dBuV/m at 3 meters.
R = Reading of Spectrum Analyzer in dBuV.
AF = Antenna Factor in dB.
CF = Cable Attenuation Factor in dB.
FA = Filter Attenuation Factor in dB.
PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

List of Test and Measurement Instruments

Hong Kong Productivity Council (Registration number: 90656)

Radiated Emission

Equipment	Manufacturer	Type	S/N	Due Date
Semi-anechoic Chamber	Frankonia	Nil	Nil	14-May-15
New Fully Anchoic Chamber	TDK	N/A	N/A	15-May-15
Cable	Hubersuhner	SUCOFLEX 104	72799 /6	31-Mar-16
Test Receiver	R & S	ESU40	100190	20-Jun-15
Bi-conical Antenna	R & S	HK116	100241	11-Jun-15
Log Periodic Antenna	R & S	HL223	841516/017	10-Jun-15
Coaxial cable 50ohm	Rosenberger	RTK081-05S-05S-10m	LA2-001-10M / 001	10-Jun-16
Microwave amplifier 0.5-26.5GHz, 25dB gain	HP	83017A	3123A00437	30-Dec-15
High Pass Filter (cutoff freq. =1000MHz)	Trilithic	23042	9829213	28-Oct-15
Horn Antenna	EMCO	3115	9002-3347	11-Jun-15
Active Loop Antenna	EMCO	6502	9107-2651	17-May-15

AC Mains Conducted Emission

Equipment	Manufacturer	Type	S/N	Due Date
Test Receiver	R & S	ESR3	101833	12 Sep 15
LISN	R & S	ENV216	100273	05 Feb 16
EMC32	R & S	v9.12	N/A	N/A

TÜV Rheinland Hong Kong Ltd

Radio Test

Equipment	Manufacturer	Type	S/N	Due Date
Spectrum Analyzer	R & S	FSP30	100007	12-Jan-17
Power meter	Dijkstra Advice, Research & EMC Instruments B.V.	RPR3006W	13I00030SN079	11-Jun-15

Results FCC Part 15 – Subpart C

FCC 15.203 – Antenna Requirement 1		Pass
FCC Requirement: No antenna other than that furnished by the responsible party shall be used with the device		
Results:	a) Antenna type: b) Manufacturer and model no: c) Peak Gain:	Fixed Integral chip antenna Mitsubishi AM03DP-ST01 2.9 dBi
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2		N/A
FCC Requirement: Provide information for every antenna proposed for the use with the EUT		
Results:	Only one integral antenna can be used.	
Verdict:	N/A	

FCC 15.207 – Conducted Emission on AC Mains						Pass
Test Specification : ANSI C63.4 – 2009 Mode of operation : TX mode of 802.11b, 802.11g, 802.11n Port of testing : AC Mains input port of power supply Detector : Quasi-peak and Average RBW : 9 kHz Supply voltage : 120Vac 60Hz Temperature : 23°C Humidity : 50%						
Requirement:		15.207(a)				
Results:		Pass				
Live measurement						
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0,15 – 0,5	No peak found	---	---	66 - 56	56 - 46	Pass
> 0,5 - 5	No peak found	---	---	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	No peak found	---	---	66 - 56	56 - 46	Pass
> 0,5 - 5	No peak found	---	---	56	46	Pass
> 5 - 30	No peak found	---	---	60	50	Pass

Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.

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 2-4.

FCC 15.247 (a)(2) – 6dB Bandwidth Measurement**Pass**

FCC Requirement: Systems using digital modulation techniques may operate in the 902 – 928 MHz, 2400 – 2483.5 MHz, and 5725 – 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

IC Requirement: The minimum -6 dB bandwidth shall be at least 500 kHz.

Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r02 section 8.1 Option 1
 Mode of operation : TX mode
 Port of testing : Temporary antenna port
 Detector : Peak
 RBW/VBW : 100KHz/ 300KHz
 Supply voltage : 3.3Vdc
 Temperature : 23°C
 Humidity : 50%

Results: For test protocols please refer to Appendix 1, page 5-9.

802.11b

Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2412	2406.84	2416.96	10.12
2437	2431.88	2441.96	10.08
2462	2456.88	2466.92	10.04

802.11g

Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2412	2404.36	2419.52	15.16
2437	2429.32	2444.52	15.20
2462	2454.36	2469.52	15.16

802.11n

Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2412	2404.36	2419.48	15.12
2437	2429.32	2444.52	15.20
2462	2454.36	2469.52	15.16

FCC 15.247(b)(3) – Maximum Peak Couducted Output Power					Pass
FCC Requirement: For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt (30dBm)					
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r02 section 9.2 Mode of operation : TX mode Port of testing : Temporary antenna port Detector : Peak Supply voltage : 3.3Vdc Temperature : 23°C Humidity : 50%					
802.11b					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2412	14.7	0.5	15.2	1 / 30.0	Pass
2437	14.2	0.5	14.7	1 / 30.0	Pass
2462	14.1	0.5	14.6	1 / 30.0	Pass
802.11g					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2412	14.5	0.5	15.0	1 / 30.0	Pass
2437	16.0	0.5	16.5	1 / 30.0	Pass
2462	16.1	0.5	16.6	1 / 30.0	Pass
802.11n					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2412	14.5	0.5	15.0	1 / 30.0	Pass
2437	15.7	0.5	16.2	1 / 30.0	Pass
2462	15.8	0.5	16.3	1 / 30.0	Pass

FCC 15.247(e) – Power Spectral Density			Pass
FCC Requirement: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.			
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r02 section 10.2 Mode of operation : TX mode Port of testing : Temporary antenna port Detector : Peak RBW/VBW : ≥ 100 KHz / $\geq 3 \times$ RBW span : $\geq 1.5 \times$ DTS BW Supply voltage : 3.3Vdc Temperature : 23°C Humidity : 50%			
Results: For test protocols please refer to Appendix 1, page 10-14.			
802.11b			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2412	3.63	8.0	Pass
2437	4.73	8.0	Pass
2462	3.89	8.0	Pass
802.11g			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2412	-0.35	8.0	Pass
2437	2.23	8.0	Pass
2462	-0.69	8.0	Pass
802.11n			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2412	-0.94	8.0	Pass
2437	0.59	8.0	Pass
2462	-1.09	8.0	Pass

FCC 15.247(d) – Spurious Conducted Emissions				Pass	
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r02 section 11.1					
Mode of operation : TX mode					
Port of testing : Temporary antenna port					
Detector : Peak					
RBW/VBW : 100 kHz / 300 kHz					
Supply voltage : 3.3Vdc					
Temperature : 23 °C					
Humidity : 50 %					
FCC 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 conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.					
Only the worst cases is shown below. For test protocols refer to Appendix 1, page 15-41.					
802.11b					
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2412	674.326	-42.62	3.63	-46.25	Pass
2437	700.300	-43.08	4.73	-47.81	Pass
2462	724.276	-46.90	3.89	-50.79	Pass
802.11g					
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2412	674.326	-51.85	-0.35	-51.50	Pass
2437	700.300	-48.36	2.23	-50.59	Pass
2462	724.276	-56.51	-0.69	-55.82	Pass
802.11n					
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2412	674.326	-54.52	-0.94	-53.58	Pass
2437	698.302	-50.59	0.59	-51.18	Pass
2462	722.278	-57.33	-1.09	-56.24	Pass

FCC 15.247 (d) – Band edge compliance of conducted emissions					Pass
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r02 Mode of operation : Tx mode Port of testing : Temporary antenna port Detector : Peak RBW/VBW : 100 kHz / 300 kHz Supply voltage : 3.3Vdc Temperature : 23°C Humidity : 50%					
FCC 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 conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. For test protocols refer to Appendix 1, page 42-44.					
802.11b					
Operating frequency (MHz)	Band-edge frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2412	2400.0	-38.76	3.63	-42.39	Pass
2462	2483.5	-46.24	3.89	-50.13	Pass
802.11g					
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2412	2400.0	-30.31	-0.35	-29.96	Pass
2462	2483.5	-44.57	-0.69	-43.88	Pass
802.11n					
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2412	2400.0	-32.64	-0.94	-31.70	Pass
2462	2483.5	-45.27	-1.09	-44.18	Pass

FCC 15.247(d) or 15.205 – Radiated Emissions in Restricted Frequency Bands		Pass
Test Specification : ANSI C63.4 – 2009 Mode of operation : TX mode Port of testing : Enclosure Detector : Peak RBW/VBW : 100 kHz / 300 kHz for $f < 1$ GHz 1 MHz / 3 MHz for $f > 1$ GHz Supply voltage : Error! Reference source not found. from DC power supply Temperature : 23°C Humidity : 50%		
FCC Requirement: In any 100kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.205(c).		
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. All three transmit frequency modes comply with the field strength within the restricted bands. There is no spurious found below 30MHz.		
Mode: 802.11b 2412MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	54.70	74.0 / PK
2390.000	42.21	54.0 / AV
4020.897	59.11	74.0 / PK
4020.897	52.49*	54.0 / AV
Mode: 802.11b 2412MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	55.17	74.0 / PK
2390.000	43.59	54.0 / AV
4020.080	59.06	74.0 / PK
4020.080	52.47*	54.0 / AV
Mode: 802.11b 2437MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4061.955	59.40	74.0 / PK
4061.955	52.59*	54.0 / AV
Mode: 802.11b 2437MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4061.154	60.25	74.0 / PK
4061.153	53.72*	54.0 / AV
Mode: 802.11b 2462MHz TX Vertical Polarization		
Freq	Level	Limit/ Detector

MHz	dBuV/m	dBuV/m
2483.500	54.05	74.0 / PK
2483.500	43.36	54.0 / AV
4104.360	60.81	74.0 / PK
4104.360	53.96*	54.0 / AV
Mode: 802.11b 2462MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	58.12	74.0 / PK
2483.500	48.88	54.0 / AV
4103.349	59.09	74.0 / PK
4103.349	52.30*	54.0 / AV
Mode: 802.11g 2412MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	58.76	74.0 / PK
2390.000	41.33	54.0 / AV
4021.090	59.47	74.0 / PK
4021.090	48.00	54.0 / AV
Mode: 802.11g 2412MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	65.35	74.0 / PK
2390.000	47.18	54.0 / AV
4020.320	59.19	74.0 / PK
4020.320	47.36	54.0 / AV
Mode: 802.11g 2437MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4061.010	59.67	74.0 / PK
4061.010	47.26	54.0 / AV
Mode: 802.11g 2437MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4061.779	60.38	74.0 / PK
4061.779	47.98	54.0 / AV
Mode: 802.11g 2462MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	68.64	74.0 / PK
2483.500	50.13	54.0 / AV
4103.221	59.69	
4103.221	47.85	
Mode: 802.11g 2462MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	66.25	74.0 / PK
2483.500	46.50	54.0 / AV

4103.478	57.98	74.0 / PK
4103.478	46.34	54.0 / AV
Mode: 802.11n 2412MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	59.65	74.0 / PK
2390.000	41.85	54.0 / AV
4021.410	57.02	74.0 / PK
	45.45	54.0 / AV
Mode: 802.11n 2412MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	67.21	74.0 / PK
2390.000	47.45	54.0 / AV
4019.679	58.40	74.0 / PK
	47.06	54.0 / AV
Mode: 802.11n 2437MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4061.731	58.84	74.0 / PK
4061.731	47.19	54.0 / AV
Mode: 802.11n 2437MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4061.827	61.03	74.0 / PK
4061.827	49.05	54.0 / AV
Mode: 802.11n 2462MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	61.70	74.0 / PK
2483.500	44.87	54.0 / AV
4103.317	58.75	74.0 / PK
4103.317	46.84	54.0 / AV
Mode: 802.11n 2462MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	71.49	74.0 / PK
2483.500	49.10	54.0 / AV
4103.077	58.35	74.0 / PK
4103.077	46.13	54.0 / AV

Remark(*) Marginal Pass