

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: RF 27MHz Wireless Keypad

Brand Name: Targus

Model Name: AKP11, AKP11US / AKP11EU / AKP11AU / AKP11AP / AKP11CA

Model Differences: Different model for different market

FCC ID: OXM000022

Report No.: ER/2009/70016

Issue Date: Jul. 17, 2007

FCC Rule Part: §15.227

Prepared for: Targus Group International, Inc.

Prepared by: SGS Taiwan Ltd.

Address: 1211 North Miller Street, Anaheim, CA 92806 United States

Address: No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Targus Group International, Inc.
1211 North Miller Street, Anaheim, CA 92806 United States

Product Description: RF 27MHz Wireless Keypad

FCC ID Number: OXM000022

Brand Name: Targus

Model No.: AKP11, AKP11US / AKP11EU / AKP11AU / AKP11AP / AKP11CA

Model Difference: Different model for different market

File Number: ER/2009/70016

Date of Test: Jul. 07, 2009 ~ Jul. 17, 2007

Date of EUT Received: Jul. 07, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.227

The test results of this report relate only to the tested sample identified in this report.

Test By:

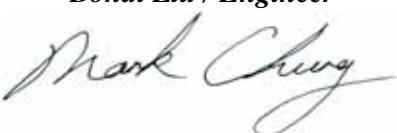


Date

Jul. 17, 2007

Bondi Liu / Engineer

Prepared By:

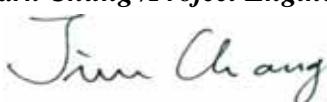


Date

Jul. 17, 2007

Mark Chung / Project Engineer

Approved By



Date

Jul. 17, 2007

Jim Chang / Supervisor

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Version

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00	Jul. 17, 2009

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1. GENERAL INFORMATION

General:

Product Name	RF 27MHz Wireless Keypad
Brand Name	Targus
Model Name	AKP11, AKP11US /AKP11EU /AKP11AU /AKP11AP /AKP11CA
Model Difference:	Different model for different market
Power Supply	1.5 Vdc by AAA Battery*1
Hardware Version	1.0
Software Version	1.0

Wireless Transmitter

Power Supply	1.5 Vdc by AAA Battery*1
Operating Frequency	27.095 MHz
Transmit Power	55.82 dBuV/m (peak)
Modulation Technique	Frequency Shift Keying (FSK)
Number of Channels	1
Operating Mode	Point-to-Point
Antenna Type	A permanent fixed antenna, which is built-In, designed as an indispensable part of the EUT. Non-User Replaceable (Fixed)

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1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **OXM000022** filing to comply with Section 15.227 of the FCC Part 15, Subpart C Rules. The composite system (receiver) is compliant with Subpart B is authorized under a DoC procedure.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513).

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

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Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

1. The lower limit shall apply at the transition frequencies

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

(2) Radiated Emission

- The field strength of any emission within this band (section 15.227 frequency between 26.96MHz -27.28MHz) shall not exceed 10000 micro volts/meter at 3 meters. (80dB μ V at 3m) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.
- The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength μ V/m	Distance (m)	Field strength at 3m dB μ V/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Remark:

- Emission level in dB μ V/m=20 log (uV/m)
- Measurement was performed at an antenna to the closed point of EUT distance of meters.
- Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
- Emission spurious frequency which appearing within the Restricted Bands

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specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.

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2.5 Configuration of Tested System

Fig. 2-1 AC Power Line and Radiation Emission Configuration

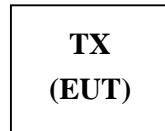


Table 2-1 Equipment Used in Tested System

Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.
N/A				

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3. Summary Of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	N/A
§15.227	Radiated Emission	Compliant
§15.227	26 dB Bandwidth	Compliant

4. Description of test modes

The EUT stay in continuous transmitting mode. The frequency 27.095 MHz is chosen for radiated emission testing.

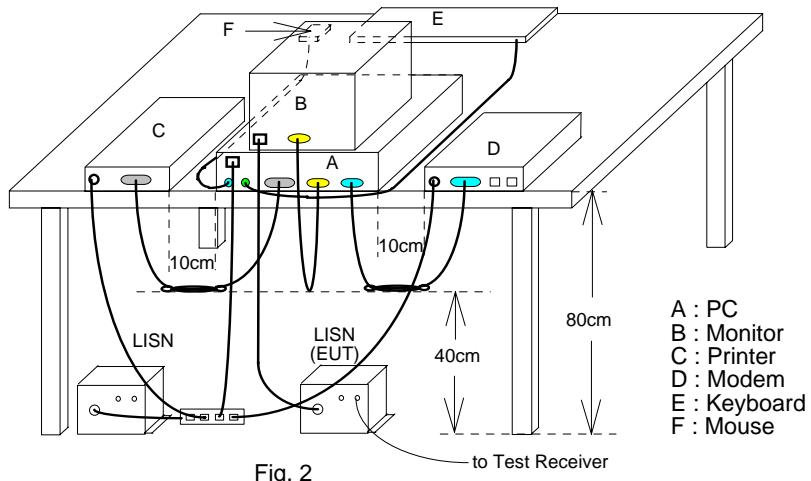
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5. Conducted Emissions Test

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2009	02/01/2010
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2009	02/01/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

5.4 Measurement Result:

N/A, the power supply is 1.5vdc by AAA battery.

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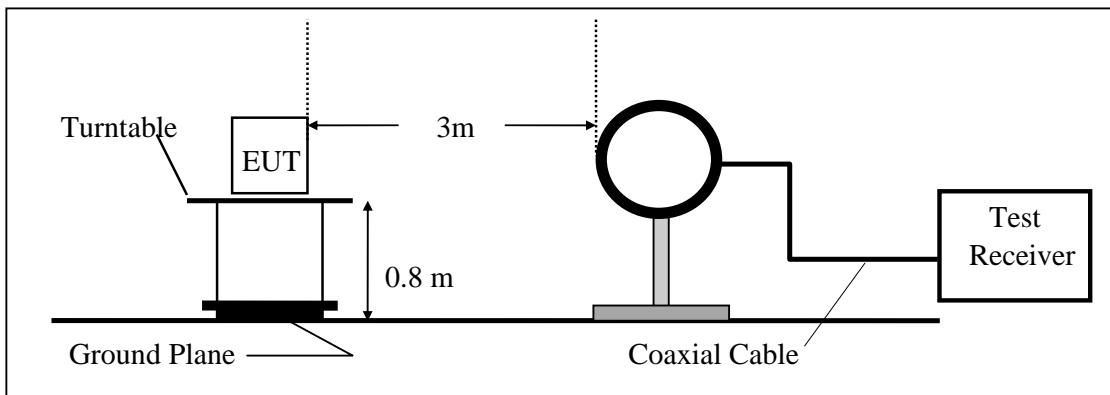
6. Radiated Emission Test

6.1 Measurement Procedure

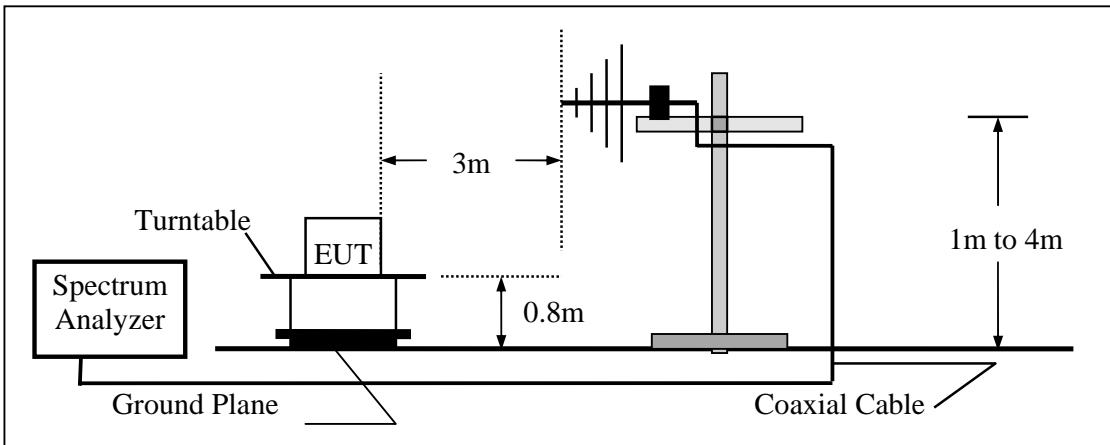
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Loop antenna	MESSTECH	FLA30	03/10086	06/06/2009	06/05/2011
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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6.5 Measurement Result

Operation Mode: Transmitting Mode
Fundamental Frequency: 27.095 MHz
Temperature : 27 °C
Humidity : 66 %

Test Date : Jul. 10, 2009
Test By: Bondi
Pol: Vertical

Freq. (MHz)	Ant.Pol. H/V	Detector			Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
		Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)				
27.10	V	Peak	60.15	-14.98	45.17	80.00	-34.83	F
54.19	V	Peak	--					
81.29	V	Peak	--					
108.38	V	Peak	--					
135.48	V	Peak	--					
162.57	V	Peak	--					
41.64	V	Peak	37.17	-14.08	23.09	40.00	-16.91	E
56.19	V	Peak	43.80	-14.87	28.93	40.00	-11.07	E
69.77	V	Peak	46.15	-16.40	29.75	40.00	-10.25	E
74.62	V	Peak	43.49	-17.23	26.26	40.00	-13.74	E
95.96	V	Peak	45.40	-17.55	27.85	43.50	-15.65	E
104.69	V	Peak	41.32	-16.95	24.37	43.50	-19.13	E

Remark :

- (1) Measuring frequencies from 25 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.

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Operation Mode: Transmitting Mode
 Fundamental Frequency: 27.095 MHz
 Temperature : 27 °C
 Humidity : 66 %

Test Date : Jul. 10, 2009
 Test By: Bondi
 Pol: Horizontal

Freq. (MHz)	Ant.Pol. H/V	Detector			Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
		Mode (PK/AV/QP)	Reading (dBuV)						
27.10	H	Peak	70.80	-	-14.98	55.82	80.00	-24.18	F
54.19	H	Peak	-	-					
81.29	H	Peak	-	-					
108.38	H	Peak	-	-					
135.48	H	Peak	-	-					
162.57	H	Peak	-	-					
41.64	H	Peak	42.02	-14.08	27.94	40.00	-12.06	E	
54.25	H	Peak	41.04	-14.76	26.28	40.00	-13.72	E	
70.74	H	Peak	41.54	-16.56	24.98	40.00	-15.02	E	
90.14	H	Peak	42.25	-17.82	24.43	43.50	-19.07	E	
98.87	H	Peak	39.05	-17.39	21.66	43.50	-21.84	E	
104.69	H	Peak	37.84	-16.95	20.89	43.50	-22.61	E	

Remark :

- (1) Measuring frequencies from 25 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.

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7. 26dB Bandwidth

7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
4. Set SPA Max hold. Mark peak, -26dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

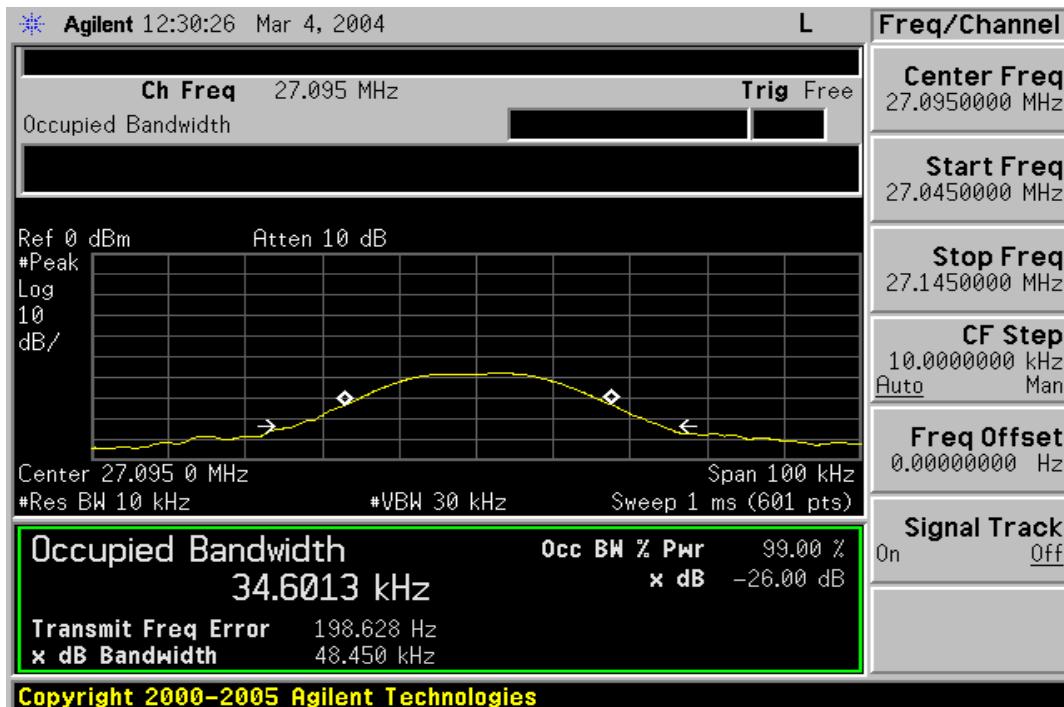
Same as 4.2 Radiated Emission Measurement.

7.4 Measurement Results

26dB bandwidth = 48.450 kHz

Refer to attached data chart.

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26dB Band Width Test Data

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