



# RF EXPOSURE REPORT

**REPORT NO.:** SA110322C09

**MODEL NO.:** BU/RB-B350-5X-P6000, BU/RB-B600-5X-P6000,  
BU/RB-B350D-5X-P6000, BU/RB-B350D-5X-LX-P6000,  
BU/RB-B600D-5X-P6000, AU-E-SA-5X-1S-M7000,  
AU-E-SA-5X-2S-M7000, AU-E-SA-5X-3S-M7000,  
BU/RB-B600 AU-E-5X-1S, BU/RB-B350 AU-E-5X-2S

**FCC ID:** LKT-BULTRA-5

**RECEIVED:** Mar. 22, 2011

**TESTED:** Nov. 07 ~ Dec. 20, 2011

**ISSUED:** Dec. 22, 2011

**APPLICANT:** Alvarion Ltd.

**ADDRESS:** 21a HaBarzel St. Tel Aviv 69710, Israel

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
New Taipei City, Taiwan ( R.O.C )

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan,  
R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Dec. 22, 2011



## 1. CERTIFICATION

**PRODUCT:** BreezeULTRA

**MODEL:** BU/RB-B350-5X-P6000, BU/RB-B600-5X-P6000,  
BU/RB-B350D-5X-P6000, BU/RB-B350D-5X-LX-P6000,  
BU/RB-B600D-5X-P6000, AU-E-SA-5X-1S-M7000,  
AU-E-SA-5X-2S-M7000, AU-E-SA-5X-3S-M7000,  
BU/RB-B600 AU-E-5X-1S, BU/RB-B350 AU-E-5X-2S

**BRAND:** Alvarion

**APPLICANT:** Alvarion Ltd.

**TESTED:** Nov. 07 ~ Dec. 20, 2011

**TEST SAMPLE:** ENGINEERING SAMPLE

**STANDARDS:** FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: AU-E-SA-5X-1S-M7000) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Andrea Hsia , DATE: Dec. 22, 2011  
Andrea Hsia / Specialist

APPROVED BY : Gary Chang , DATE: Dec. 22, 2011  
Gary Chang / Technical Manager

## 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 165cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
5180-5240	802.11a	-3.7	23	165	0.0002	1
	802.11n (20MHz)	-4.0	23	165	0.0002	1
	802.11n (40MHz)	-0.1	23	165	0.0006	1
5745-5825	802.11a	29.9	23	165	0.575	1
	802.11n (20MHz)	29.8	23	165	0.561	1
	802.11n (40MHz)	29.8	23	165	0.560	1
5745-5825	802.11a	26.9	28	165	0.906	1
	802.11n (20MHz)	27.0	28	165	0.916	1
	802.11n (40MHz)	27.3	28	165	0.993	1