

CERTIFICATE OF CONFORMITY

We herewith confirm that one sample of the following designated product

BT radio module

Model No.: Bluebear

.....
(Product identification)

has been tested with positive results against following standards:

FCC OET Bulletin 65

.....
(Identification of regulations / standards)

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and RSS-102 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device. Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy in excess limit for maximum permissible exposure

This certificate is issued for

**lesswire AG
Im Technologiepark 1
15236 Frankfurt (Oder), Germany**

.....
(Name / Address)

The certification is valid only in accordance with the test report No. G0M20905-2357-P-15 and when the product is manufactured in accordance with the tested sample.

This certificate is only valid in conjunction with the annex: - 1.

GS LVD E/e-MARK FCC GSM UMTS SAR RADIO CB EMC DECT WLAN 3G Bluetooth R&TTE



This is the result of tests carried out on those samples of the product referred to above which were submitted for testing, in accordance with the specification for the respective standards.
Eurofins ETS Product Service GmbH – Accredited Test House – Recognized Certification Body –



December 15, 2009

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(Date)

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Jörg Kusig

RF Exposure Evaluation

Technical specification:

Frequency band(s)	2400 – 2483.5 MHz (Bluetooth)
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name		nature value	log value
max conducted power		40,74 mW	16,10 dBm
max Antenna gain		1,58	2,00 dBi
calculated radiated power	EIRP	64,57 mW	18,10 dBm
measured radiated power	EIRP	95,06 mW	19,78 dBm

Tx frequency		2402,000 MHz		
duty cycle factor				
duty cycle factor	10log(dwell time/100 ms)		46,4%	-3,33 dB
max source-based time-averaged power				
conducted power			18,90 mW	12,77 dB
calculated radiated power	EIRP		29,96 mW	14,77 dB
measured radiated power	EIRP		44,11 mW	16,45 dB

M P E						
$S = \frac{PG}{4\pi R^2}$		calculated with max source-based time-averaged power measured conducted power				
		r [cm]	20	2,5	1,5	1,54
		S [mW/cm ²]	0,006	0,382	1,060	1,0
Limit general population		[mW/cm ²]	1,0	for f = 2402,000 MHz		
Limit occupational population		[mW/cm ²]	5,0			
$S = \frac{EIRP}{4\pi R^2} = \frac{1.64 ERP}{4\pi R^2} = \frac{0.41 ERP}{\pi R^2}$		calculated with max source-based time-averaged power measured radiated power				
		r [cm]	20	2,5	1,5	1,87
		S [mW/cm ²]	0,009	0,562	1,561	1,0