

AT4 wireless, S.A.

Designated by the

Secretaría de Estado de Telecomunicaciones y para la Sociedad de la Información
(Ministerio de Industria, Energía y Turismo)

to act as Notified Body in accordance with the R&TTE Directive 1999/5/EC of 9 March 1999

Directive 1999/5/EC – Notified Body Expert Opinion

Identification Number: **37288CNB.002A1**
Issue date: **2014-01-17**

APPLICANT DETAILS:

Company name: **u-blox AG**
Address: **Zuercherstrasse 68
8800 Thalwil
Switzerland**

MANUFACTURER DETAILS:

Company name: **u-blox AG**
Address: **Zuercherstrasse 68
8800 Thalwil
Switzerland**

EQUIPMENT DETAILS:

Type of equipment: **2.5G GSM/GPRS Data and Voice Wireless Modules**
Brand name: **u-blox**

Model name:	SARA-G350	SARA-G310	SARA-G300
HW version:	165002	164001	1640A1
SW version:	08.49	08.58	08.58

SCOPE OF OPINION:

Essential requirements	Specifications / Standards	Submitted documents
Article 3.1(a): Electrical safety	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011	Test report
Article 3.1(a): EMF exposure	EN 62311:2008	Calculation
Article 3.1(b): EMC	EN 301 489-1 V1.9.2 EN 301 489-7 V1.3.1	Test report
Article 3.2: Radio spectrum use	EN 301 511 V9.0.2	Test report

OPINION:

Our opinion in accordance with Annex IV of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity is that the equipment complies with the requirements of that directive stated in the above scope.

This opinion has 1 annex with 2 pages and it is only valid in conjunction with it.

Signed on behalf of AT4 wireless, S.A. in Málaga (Spain)

Marking: **The product shall be marked with CE and our notified body number as shown below.**

CE 1909

Name: **Ricardo Orejas Rodríguez**
Position: **Responsible of 1999/5/EC Dir. NB No. 1909**

Annex I to Notified Body Expert Opinion No. 37288CNB.002A1

TECHNICAL CONSTRUCTION FILE:

Held at: **u-blox AG**
 Address: **Zuercherstrasse 68**
8800 Thalwil
Switzerland
 Date: **2014-01-17**
 File number: **SARA-G350_37288_Rev_3.1**

TECHNICAL FEATURES AND CHARACTERISTICS:

Operating frequency bands: **E-GSM 900, DCS 1800**
 Operation modes: **GSM, GPRS**
 Modulations: **Downlink: GMSK**
Uplink: GMSK
 Bit rates (maximum): **Downlink: 85.6 kbps**
Uplink: 42.8 kbps
 Output power: **E-GSM 900: Power Class 4**
DCS 1800: Power Class 1
 Antenna: **External antenna**
Impedance: 50 ohm
 Intended use: **To provide M2M connectivity to host devices through GSM/GPRS networks**

CONFORMITY DETAILS:

Essential requirement: Article 3.1(a): Electrical safety	
Specifications / Standards:	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011
Test report No:	T130123W06-LV
Issued by:	Compliance Certification Services Inc.
Issue date:	2013-05-09
Essential requirement: Article 3.1(a): EMF exposure	
Specifications / Standards:	EN 62311:2008
Document No:	N/A
Issued by:	u-blox AG
Issue date:	N/A
Essential requirement: Article 3.1(b): EMC	
Specifications / Standards:	EN 301 489-1 V1.9.2, EN 301 489-7 V1.3.1
Test report No:	T130123W06-RE
Issued by:	Compliance Certification Services Inc.
Issue date:	2013-05-04
Specifications / Standards:	EN 301 489-1 V1.9.2, EN 301 489-7 V1.3.1
Test report No:	T130724W03-RE
Issued by:	Compliance Certification Services Inc.
Issue date:	2013-07-31
Specifications / Standards:	EN 301 489-1 V1.9.2, EN 301 489-7 V1.3.1
Test report No:	T130724W04-RE
Issued by:	Compliance Certification Services Inc.
Issue date:	2013-07-31
Essential requirement: Article 3.2: Radio spectrum use	
Specifications / Standards:	EN 301 511 V9.0.2
Test report No:	00421RMV.002A1
Issued by:	AT4 wireless, Inc.
Issue date:	2013-05-09

Specifications / Standards: **EN 301 511 V9.0.2**
Test report No: **00421RMV.003**
Issued by: **AT4 wireless, Inc.**
Issue date: **2013-05-10**

Specifications / Standards: **EN 301 511 V9.0.2**
Test report No: **39355RMV.001**
Issued by: **AT4 wireless, S.A.**
Issue date: **2013-06-05**

Specifications / Standards: **EN 301 511 V9.0.2**
Test report No: **00421BRMV.008**
Issued by: **AT4 wireless, Inc.**
Issue date: **2013-08-06**

Specifications / Standards: **EN 301 511 V9.0.2**
Test report No: **00421BRMV.009**
Issued by: **AT4 wireless, Inc.**
Issue date: **2013-08-06**

Specifications / Standards: **EN 301 511 V9.0.2**
Test report No: **00421BRMV.005**
Issued by: **AT4 wireless, Inc.**
Issue date: **2013-08-05**

Specifications / Standards: **EN 301 511 V9.0.2**
Test report No: **00421BRMV.006**
Issued by: **AT4 wireless, Inc.**
Issue date: **2013-08-06**

REMARKS AND COMMENTS:

EMF exposure only evaluated when the antenna used with the device is located at a minimum distance of 20 cm from the user.

Device tested with reference antenna as specified below:

Model: GSA.8821
Antenna gain: E-GSM 900: 3.9 dBi
DCS 1800: 4.1 dBi

Antenna specifications as declared and defined by the manufacturer. Antenna should be installed following manufacturer instructions. The use of different antennas may affect the compliance; if the manufacturer is in doubt about the compliance then the equipment with the new antennas must be assessed to demonstrate compliance with the essential requirements of the 1999/5/EC Directive. It should be noted that assessment does not necessarily lead to testing.

The devices SARA-G350 and SARA-G310 also operate in other non EU frequency bands. This operation has not been evaluated in this opinion.

A1 modification: Correction of typos in test reports reference.