

CETECOM ICT Services GmbH • Postfach 10 04 45 • D-66004 Saarbrücken

**u-blox AG**  
**attn. Mr. Giulio Comar**  
Zürcherstrasse 68  
8800 Thalwil  
  
SWITZERLAND

|                                       |                                 |                          |             |
|---------------------------------------|---------------------------------|--------------------------|-------------|
| Your reference, your message from     | Our reference, our message from | Phone / Fax              | Saarbrücken |
| LISA-U270-01 (HW: 146AD0 / SW: 22.90) | SCHM                            | +49 (0)2054 / 9519-228 / | 2013-07-30  |
| Order dated 2013-07-24                | M529173Z-02-EO                  | +49 (0)2054 / 9519-964   |             |

• **Conformity Assessment acc. to Annex IV of Directive 1999/5/EC (R&TTE Directive)**

identification of the proceeding

Registration Number: **M529173Z-02-EO**  
Product Manufacturer: **u-blox AG, Switzerland**  
Product Designation: **3.75G UMTS/HSPA+ Data And Voice Module "LISA-U270-01"  
GSM850/(E-)GSM900/GSM1800/GSM1900/WCDMA (FDD I,VIII)**

Dear Sir/Madam,

following your order we have performed the conformity assessment for your product given above. Please find enclosed the relating issue of the

**Expert Opinion** with the registration number : **M529173Z-02-EO**

**Notes:** The EC conformity marking (CE mark) of products as designated in the above given Expert Opinion shall be accompanied by our notified body identification number 0682 and the equipment class identifier if applicable (class 2 devices only) before the placing on the market. Please pay attention to further formal provisions of Directive 1999/5/EC regarding product labelling, obligatory information to the user or to authorities that may apply. Guidance is available from the EC commission's R&TTE web pages. For other products than those designated in the related Expert Opinion our notified body identification number may not be used without our written permission.

The order is concluded herewith. We will charge for our services by a separate invoice.

Yours faithfully  
CETECOM ICT Services GmbH

Enclosure  
• Expert Opinion

  
i.A. Marc Schmidt

# CETECOM ICT Services GmbH

EC Identification number 0682

authorized by the German Government



BNetzA-bS-02/51-52

to act as Notified Body in accordance with the R&TTE Directive 1999/5/EC of March 9<sup>th</sup>, 1999.

## EXPERT OPINION

Registration-No.: **M529173Z-02-EO**

Applicant / Manufacturer: **u-blox AG**  
**Zürcherstrasse 68**  
**8800 Thalwil**  
**Switzerland**

Product Designation: **LISA-U270-01 (HW: 146AD0 / SW: 22.90)**

Product Description: **3.75G UMTS/HSPA+ Data And Voice Module**  
**GSM850/(E-)GSM850/GSM1800/GSM1900/WCDMA (FDD I,VIII)**  
Power Classes: GSM850/900: 4 - GSM1800/1900: 1 - WCDMA: 3  
GPRS/EGPRS Multislot Class 12

| essential requirement<br>(related R&TTE article) | Applied Specifications / Standards                                  | Evidence<br>Docum                  | Result  |
|--|---|------------------------------------|---------|
| RF spectr. efficiency (Art. 3 2)                 | EN 301 511, v9.0.2 / EN 301 908-1, v4.2.1 / EN 301 908-2, v4.2.1    | Test<br>Report(s)                  | conform |
| EMC (Art. 3 1b)                                  | EN 301 489-1, v1.9.2 / EN 301 489-7, v1.3.1 / EN 301 489-24, v1.5.1 | Test<br>Report(s)                  | conform |
| Safety & Health (Art. 3 1a)                      | EN 60950-1:2006+A11:2009+A1:2010+A12:2011<br>EN 62311:2008          | Test<br>Report(s) /<br>Calculation | conform |

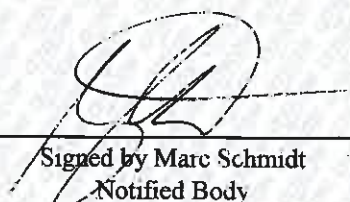
Marking: The EC conformity marking (CE mark) of the products shall be accompanied by our EC identification number 0682 as shown right hand.

**CE 0682**

The scope of evaluation relates to the submitted documents only. Information, documentation or evidence related to product functions beyond the scope of the R&TTE Directive may be given for informative reasons but has not been subject to the assessment under the R&TTE Directive as identified above (e.g. 2G or 3G frequency bands not used in Europe). This document is only valid in conjunction with the following annex.

Saarbruecken, July 30, 2013

Place, Date of Issue

  
Signed by Marc Schmidt  
Notified Body



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## Technical Construction File (TCF) Details

### Test Report(s) / Evidence regarding article 3.2 of the R&TTE Directive (RF spectrum efficiency):

- ★ GSM Test Report(s) no. ES\_GT\_305050REV1<sup>(\*)</sup>, ES\_GT\_307180<sup>(\*)</sup>, ES\_GT\_308489<sup>(\*)</sup>

*issued by:* CETECOM GmbH

*applied standard(s):* EN 301 511, v9.0.2

- UMTS Test Report(s) no. ES\_UT\_008901REV1<sup>(\*)</sup>, ES\_UT\_307182<sup>(\*)</sup>, ES\_UT\_308490<sup>(\*)</sup>

*issued by:* CETECOM GmbH

*applied standard(s):* EN 301 908-1, v4.2.1 / EN 301 908-2, v4.2.1

*note:* In conjunction with further relevant parts of the presented TCF the above given test report(s) demonstrate(s) compliance of the product with article 3.2 of the R&TTE Directive.

### Test Report(s) / Evidence regarding article 3.1b of the R&TTE Directive (EMC):

- EMC Test Report(s) no. 6-0143-12-10-1a-C2<sup>(\*)</sup>

*issued by:* CETECOM GmbH

*applied standard(s):* EN 301 489-1, v1.9.2 / EN 301 489-7, v1.3.1 / EN 301 489-24, v1.5.1

*note:* In conjunction with further relevant parts of the presented TCF the above given test report(s) demonstrate(s) compliance of the product with article 3.1b of the R&TTE Directive.

### Test Report(s) / Evidence regarding article 3.1a of the R&TTE Directive (safety & health):

- ★ Safety Test Report(s) no. 1-5395/12-01-02<sup>(\*)</sup>

*issued by:* CETECOM ICT Services GmbH

*applied standard(s):* EN 60950-1:2006+A11:2009+A1:2010+A12:2011

- ★ MPE Calculation(s) no. 6-0143-12-11-2d<sup>(\*)</sup>

*issued by:* CETECOM GmbH

*applied standard(s):* EN 62311:2008

*note:* In conjunction with further relevant parts of the presented TCF the above given test report(s) demonstrate(s) compliance of the product with article 3.1a of the R&TTE Directive.

### Manufacturer's relevant technical documentation for the product.

**Note:** The assessment documented herein is partially based on documentation (incl. test reports marked with a star <sup>(\*)</sup>) from assessment(s) applied to a product variant and/or former versions of the product which can be seen as identical in most relevant parts. Those documentation is additional part of the current TCF version or may be given there by reference, together with relevant update and / or comparison information.

**Note:** Compliance of the identified module with the essential requirements of the R&TTE directive does not automatically constitute compliance of host-products which will integrate the module. Those end-products must be subject to their own compliance assessment whereas above listed test evidence may be re-used to limit the required test scope when justifiable.

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