

# Expertise

**Expert Opinion of the Notified Body on the Conformity Assessment  
according to Article 10.5 of R&TTE Directive 1999/5/EC**

**PHOENIX TESTLAB**  
EU Identification Number **0700**

Recognised by  Bundesnetzagentur

BNetzA-bs-02/51-55

Expertise No.	15-110940
Certificate Holder	Shenzhen Wings Technology Co.,Ltd.
Address	Rm. 1218, 12/F, Jinhua Building, Xinhua Road, Bao'an Dist., Shenzhen, Guangdong, China.
Product Description	Cellular signal booster; with GSM and WCDMA
Brand Name / Model Name	WINGSTEL / See annex of this Expertise

## Opinion on the Essential Requirements

Article 3.1a): Health and Safety	<b>Remarks see annex</b>
Article 3.1b): Electromagnetic Compatibility	<b>No remarks</b>
Article 3.2: Effective Use of the Radio Spectrum	<b>Remarks see annex</b>

## CE-marking

Marking Example (Class 2) **CE 0700 !**

This certificate is issued in accordance with the Directive 1999/5/EC of the European Parliament and the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity dated 9<sup>th</sup> March 1999 and is only valid in conjunction with the following annex (3 pages).

Blomberg, 12 February 2015

Place, Date of Issue



Signed by Alan Lane  
Notified Body

## Technical description

Frequency Range	GSM 900 MHz: Downlink:935MHz to 960MHz Uplink:890MHz to 915MHz GSM 1800 MHz: Downlink:1805MHz to 1880MHz Uplink:1710MHz to1785MHz UTRA FDD Band I: Downlink:2110MHz to 2170MHz Uplink:1920MHz to 1980MHz
Transmitted Power	Downlink: Max. 20dBm Uplink: Max. 10dBm

## Technical Construction File (TCF):

### Technical documentation according to Annex II sub clause 4:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> User Manual     | <input checked="" type="checkbox"/> Operational Description |
| <input checked="" type="checkbox"/> Block Diagram   | <input checked="" type="checkbox"/> Circuit Diagram         |
| <input checked="" type="checkbox"/> Parts Placement | <input checked="" type="checkbox"/> PCB-Layout              |
| <input checked="" type="checkbox"/> Parts List      |   |

Hardware Version : --  
Software Version : --

### Model Name(s)

WT-GSM/DCS/WCDMA, WT-CDMA850, WT-CDMA850-30A,  
WT-GSM900, WT-GSM900-30A, WT-DCS1800, WT-DCS1800-30A,  
WT-WCDMA2100, WT-WCDMA2100-30A, WT-GSM/DCS,  
WT-GSM/WCDMA, WT-DCS/WCDMA, WT-LTE2600



### Applied Standards and Test Reports

Specification	Laboratory	Test Report Number
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS140118370TS
EN 50385:2002	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS140220269TH
EN 301 489-1 V1.9.2 EN 301 489-8 V1.2.1 EN 301 489-23 V1.4.1	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS140220268TE
EN 300 609-4 V9.2.1	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS140118371TE
EN 301 908-1 V5.2.1 EN 301 908-11 V5.2.1	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS140220267TE

### Further Documents

EU Declaration of Conformity, 2 pages, 2015-02-09.

Authorization Letter from original applicant, 1 page, 2015-02-09.

Sample family of DoC Letter, 1 page, 2015-02-09.

Construction Equality Declaration, 1 page,--

This OEM application will refer to expertise number 14-110966.



## Opinion on the Essential Requirements:

The basis of this Expertise is the Technical Construction File (TCF). If the TCF includes test reports issued by laboratories accredited to the standard ISO/IEC 17025, the test results of these reports are considered as a basis for the conformity assessment of the Notified Body.

### Article 3.1a): Health and Safety:

- Health: Conform
- Safety:
  - AC/DC Adapter: The adapter part has not been assessed. This should be tested according to EN 60950-1.

### Article 3.1b): Electromagnetic Compatibility:

- Conform

### Article 3.2: Effective Use of the Radio Spectrum:

- The radio tests for the WCDMA radio part have been carried out according to the standard version EN 301 908-1 V5.2.1 which is obsolete and for which the presumption of conformity ended on 2015-01-31. The obsolete standard version is superseded by EN 301 908-1 V6.2.1.

### General Remarks:

- This conformity assessment is limited to the essential requirements of the R&TTE Directive. Only products fulfilling all essential requirements of all applicable new approach directives may be placed on the market and put into service. Products in compliance with all provisions of the applicable directives providing for the CE marking must bear this marking.
- Before putting a product on the market which uses non harmonised frequencies (Class 2) the national authorities of the member states have to be notified.
- The software and hardware may affect the compliance, therefore the software version and hardware shall be stated.
- The Technical Construction File should include all layers of the PCB layout.

