

# EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

## Radio Equipment Directive (RED) 2014/53/EU

**PHOENIX TESTLAB**  
Notified Body Number **0700**



This is to certify that:

PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	17-211426b
Manufacturer	ZTE CORPORATION
Address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong Province 518057, P.R.China
Product Description	Broadband Digital Trunking Terminal; with GPS, GSM, Bluetooth, WiFi, WCDMA, LTE and PMR
Brand Name / Model Name	ZTE / GM651

### The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	<b>Conform</b>
Article 3.1 b): Electromagnetic Compatibility	<b>Conform</b>
Article 3.2: Effective and Efficient Use of Radio Spectrum	<b>Conform</b>
Additional Essential Requirements:	<b>Not applicable</b>

Date of issue	<b>2017-06-01</b>	Expiry date:	<b>2022-05-31</b>
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This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.  
This version of the certificate replaces the certificate 17-211426a, which is hereby withdrawn.

The attached Annex forms part of this certificate. This certificate consists of 4 pages.



Signed by Alan Lane  
Notified Body

## Annex

### Technical description

Frequency Range	GSM 900/1800 MHz GPS: 1575.42 MHz (Rx) Bluetooth: 2402 - 2480 MHz WiFi: 2412 - 2472 MHz UTRA FDD Band I E-UTRA FDD Band 31 PMR:400 - 470 MHz (Operation frequency range: 400.0125 - 469.9875 MHz; CH spacing:12.5 KHz)
Transmit Power	Max. 2W / Max. 1W Bluetooth: 2.03 dBm EIRP WiFi: 11b: 11.54 dBm EIRP 11g: 9.92 dBm EIRP 11n: 9.14 dBm EIRP UTRA FDD: 24 dBm E-UTRA FDD: 23 dBm PMR: Max. 0.5W
Hardware Version	GM650-P1-GM650V1.0.0B03
Software Version	GM655V0.0.1.8B01N

### System Components

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### Optional Components

PMR antenna	External antenna, Gain:0 dBi
GSM/WCDMA/LTE antenna	Integral antenna, Gain:4.0 dBi
GPS antenna	Dedicated antenna, Gain:0 dBi
BT/WiFi antenna	Integral antenna, Gain:-2.0 dBi
HAND Microphone	AA400 Shenzhen Voxtech Co., Ltd.
DC Power Cable	16AWG3C, 3m, Unshielded Cable United Westwin Electronic Co., Ltd

### Approval documentation

External / Internal Photos	Provided, 3 pages/7 pages
User Manual	Provided, 1 page
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 55 pages
Operational Description	Provided, 9 pages
PCB Layout/ Parts Placement	Provided, 18 pages
Parts List	Provided, 14 pages
EU Declaration of Conformity	3 pages, May 17, 2017
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 3 pages

### Applied Standards and Test Reports


Specification	Laboratory	Test Report Number / Version
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRS17030399
EN 50385:2002	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028010 01
Draft ETSI EN 301 489-1 V2.2.0 Final Draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-5 V2.2.0 Draft ETSI EN 301 489-17 V3.1.1 Draft ETSI EN 301 489-52 V1.1.0	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028009 01
ETSI EN 300 086 V2.1.2	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028007 01
ETSI EN 300 440 V2.1.1	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028008 01
ETSI EN 301 511 V12.5.1	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028001 01
ETSI EN 300 328 V2.1.1	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028004 01 TRE1703028005 01 TRE1703028006 01
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-2 V11.1.1	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028002 01
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-13 V11.1.1	Shenzhen Huatongwei International Inspection Co.,Ltd.	TRE1703028003 01



### Limitations / Restrictions.

- Body SAR Separation distance is 40cm.
- Operating Temperature range is -20 - +25 degree Celsius.
- 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.

### Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.
3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.
4.  The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.
5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.