

Notified Body  
**TÜV Rheinland**  
**LGA Products GmbH**

Tillystraße 2  
90431 Nürnberg

notified by the  
Bundesnetzagentur für Elektrizität, Gas,  
Telekommunikation, Post und Eisenbahnen

**under No. 0197**

herewith issues an

**EU-Type Examination Certificate**

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)  
for compliance with the essential requirements of this directive

Registration Number: RT 60172065 0001

Evaluation Report Nr.: CN23C9MT 001

Manufacturer:

Shenzhen Gotron Electronic CO.,LTD.  
7B01, Building A, Block 1,  
Anhongji Tianyao Plaza, Longhua District,  
Shenzhen City,  
Guangdong  
P.R. China

Product:

Radio Equipment  
(Mobile Phone)

Type  
Identification:

GQ3115 Armor 22 Armor 22 Pro Armor 22 Ultra  
Armor 22 Lite Armor 22 Plus Armor 22S  
Armor 22P Armor 22T Armor 22E  
(ulefone)

Essential  
requirements:

2014/53/EU (RED)  
Article 3.1a Health  
Article 3.1a Electrical Safety  
Article 3.1b EMC  
Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I.

Validity of the certificate is specified in the Annex I.

Date **12.09.2023**



Notified Body

  
S. Peng

## Equipment

**Product** : Mobile Phone  
**Trademark** : ulefone  
**Identification** : GQ3115, Armor 22,Armor 22 Pro,Armor 22 Ultra,Armor 22 Lite,Armor 22 Plus,Armor 22S,Armor 22P,Armor 22T,Armor 22E  
**Product description** : This product is a Mobile Phone, which supports GSM/WCDMA/LTE, Bluetooth, Wi-Fi, FM, NFC and GPS functions.

## System description

Frequency band(s) of operation	E-GSM 900, DCS 1800, WCDMA Band I/VIII LTE Bands 1/3/7/8/20/28/40, 2400-2483.5MHz, 5150-5250MHz, 5745-5825MHz, 1559-1610MHz, 87.5-108MHz, 13.557-13.567MHz
Operating frequency	E-GSM 900: Uplink: 880-915MHz, Downlink: 925-960MHz DCS 1800: Uplink: 1710-1785MHz, Downlink: 1805-1880MHz WCDMA Band I: Uplink: 1920-1980MHz, Downlink: 2110-2170MHz WCDMA Band VIII: Uplink: 880-915MHz, Downlink: 925-960MHz LTE Band 1: Uplink: 1920-1980MHz, Downlink: 2110-2170MHz LTE Band 3: Uplink: 1710-1785MHz, Downlink: 1805-1880MHz LTE Band 7: Uplink: 2500-2570MHz, Downlink: 2620-2690MHz LTE Band 8: Uplink: 880-915MHz, Downlink: 925-960MHz LTE Band 20: Uplink: 832-862MHz, Downlink: 791-821MHz LTE Band 28: Uplink: 703 - 748MHz, Downlink: 758 - 803MHz LTE Band 40: Uplink & Downlink : 2300-2400MHz Bluetooth: 2402-2480MHz, 2.4GHz Wi-Fi: 2412-2472MHz, 5GHz Wi-Fi: 5150-5250MHz, 5745-5825MHz, GNSS (receiver): 1575.42MHz, FM(receiver): 87.5-108MHz, NFC: 13.56MHz
Channel spacing / bandwidth	200kHz, 1MHz, 1.4MHz, 2MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz, 40MHz, 80MHz
RF output power	E-GSM 900: 33dBm±2dB DCS 1800: 30dBm±2dB WCDMA: 24dBm+1.7dB/-3.7dB LTE bands: 23dBm±2dB Bluetooth: 6.3dBm (max.e.i.r.p.) 2.4GHz Wi-Fi: 16.37dBm (max. e.i.r.p.) 5GHz Wi-Fi: 11.20dBm (max. e.i.r.p.) NFC: 11.02dBuA@10m
Type of modulation	GMSK, 8PSK, QPSK, 16QAM, DSSS (DBPSK, DQPSK, CCK), OFDM (BPSK, QPSK, 16QAM, 64QAM), GFSK, pi/4-DQPSK, 8-DPSK, FM
Type of antenna	Integral Antenna
Mode of operation (simplex / duplex)	Duplex
Duty cycle (access protocol, if applicable)	Up to 100%
Hardware version	F2-01
Software version	Armor_22_TF1_EEA_V10

## Documentation

User information and installation instructions	<input checked="" type="checkbox"/>
Block diagram	<input checked="" type="checkbox"/>
Circuit diagram	<input checked="" type="checkbox"/>
Part list	<input checked="" type="checkbox"/>
PCB layout	<input checked="" type="checkbox"/>
Photo documentation	<input checked="" type="checkbox"/>
Versions of firmware/software used	<input checked="" type="checkbox"/>
Statement of compliance with art. 10.2 it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.	<input checked="" type="checkbox"/>
Risk Analysis	<input checked="" type="checkbox"/>

## Conformity Assessment

Applied harmonised standards (Referred to the publication of harmonised standards in the official Journal of the EU at the time of issuance)			
Article	Standard	Test Report No.	Issued by
3.1a Health	EN 50360:2017 EN 50566:2017	S23071304202001	Shenzhen NTEK Testing Technology Co., Ltd.
3.1a Safety			

3.1b EMC	EN 301 489-52 V1.2.1	S23060904002001	Shenzhen NTEK Testing Technology Co., Ltd.
3.2 Radio	EN 300 328 V2.2.2; EN 301 893 V2.1.1; EN 301 511 V12.5.1; EN 301 908-1 V13.1.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.1.1; EN 303 345-3 V1.1.1; EN 303 413 V1.2.1; EN 300 330 V2.1.1	S23071304201001 S23071304201002 S23071304201003; S23071304201004; S23071304201006; S23071304201007 S23071304201008; S23071304201009; S23071304201010; S23071304201011	Shenzhen NTEK Testing Technology Co., Ltd.
3.3 Other			
<b>Applied non-harmonised standards</b>			
<b>Article</b>	<b>Standard</b>	<b>Test Report No.</b>	<b>Issued by</b>
3.1a Health	EN 62479: 2010	S23071304202001	Shenzhen NTEK Testing Technology Co., Ltd.
3.1a Safety	EN 62368-1:2014+A11:2017	S23071304204001	Shenzhen NTEK Testing Technology Co., Ltd.
3.1b EMC	EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.4 EN 301 489-19 V2.1.1 EN 55032:2015+A1:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021	S23071304203001	Shenzhen NTEK Testing Technology Co., Ltd.
3.2 Radio	EN 300 440 V2.2.1; EN 303 345-1 V1.1.1	S23071304201005; S23071304201009	Shenzhen NTEK Testing Technology Co., Ltd.
3.3 Other			
<b>Other solutions, adopted to meet the essential requirements</b>			
<b>Article</b>	<b>Standard</b>	<b>Test Report No.</b>	<b>Issued by</b>
3.1a Health	EN 62209-1:2016 EN 62209-2:2010	S23071304202001	Shenzhen NTEK Testing Technology Co., Ltd.

## Rationale for applied non-harmonised standards or other solutions:

- EN 62479 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz);
- EN 62368-1 Audio/video, information and communication technology equipment - Part 1: Safety requirements
- EN 55032 Electromagnetic compatibility of multimedia equipment - Emission Requirements; EN IEC 61000-3-2 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase); EN 61000-3-3: Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection; EN 301 489-1 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; EN 301 489-3 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for ElectroMagnetic Compatibility; EN 301 489-17 Part 17: Specific conditions for Broadband Data Transmission Systems; EN 301 489-19 Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1.5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation and timing data.  
EN 303 345-1 Broadcast Sound Receivers; Part 1: Generic requirements and measuring methods; EN 300 440 Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum.
- EN 62209-1 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz); EN 62209-2 Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)

## Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- Validity of this Type Examination Certificate is limited to the versions of the applied standard. If versions of standards change or modifications are made to the product, this Certificate will be invalidated.