Notified Body
Eurofins Electrical and Electronic Testing NA, Inc.

EU-TYPE EXAMINATION CERTIFICATE

Registration Number: 2582-09-2023-230330

Manufacturer: Guangzhou Toksurvey Information Technology Co., Ltd
No. 136, Yingbin Avenue, Room 1232 Huadu District, Guangzhou, Guangdong, China
Product Description: High Precision GNSS Receiver
Model Number/Name: T20、T20Pro

Essential Requirement(s)	**Result**
Art. 3.1(a) Safety	Conform
Art. 3.1 (a) Health	Conform
Art. 3.1(b) EMC	Conform
Art. 3.2 Radio	Conform
Art. 3.3(g) Emergency service	Not applicable

Examination Result:

Based on the reports provided and the information therein, the equipment referenced above is compliant to these specifications.

The scope of evaluation relates to the submitted documents only.

This Certificate is issued in accordance with Annex III, Module B, of the RE directive 2014/53/EU of 16 April 2014 and is only valid in conjunction with the attached Annex.

9/27/2023
Date

Signed By Tom Zhang
Notified Body

Annex

Product specification

Hardware version: M68K-PCBA.1.1.230225
Software version: m68.2.438.2307.1755
Frequency Band(s):
Bluetooth: 2402MHz-2480MHz
2.4G WLAN: 2412MHz-2472MHz
GSM 900:880MHz-915MHz(TX), 925MHz-960MHz(RX)
GSM 1800: 1710MHz – 1785MHz(TX), 1805MHz-1880MHz(RX)
WCDMA2100:1920MHz – 1980MHz(TX), 2110MHz -2170MHz(RX)
WCDMA900: 880MHz -915MHz(TX), 925MHz - 960MHz(RX)
FDD LTE Band 1: 1920MHz -1980MHz(TX),2110MHz -2170MHz(RX)
FDD LTE Band 3: 1710MHz -1785MHz(TX),1805MHz -1880MHz(RX)
FDD LTE Band 7: 2500MHz -2570MHz(TX),2620MHz -2690MHz(RX)
FDD LTE Band 8: 880MHz -915MHz(TX),925MHz -960MHz(RX)
FDD LTE Band 20: 832MHz-862 MHz(TX),791MHz -821MHz(RX)
FDD LTE Band 28: 703MHz -748 MHz(TX),758MHz -803MHz(RX)
TDD LTE Band 38: 2570MHz -2620 MHz(TX),2570MHz -2620MHz(RX)
TDD LTE Band 40: 2300MHz -2400 MHz(TX),2300MHz -2400MHz(RX)
BDS:1559MHz – 1610MHz
Galileo:1559MHz – 1300MHz
GLONASS: 1559MHz – 1300MHz
GPS:1164MHz – 1610MHz
SBAS: 1164MHz – 1610MHz
VHF: 410MHz-470MHz
Transmit Power Range(s):
Classic Bluetooth: 4.66dBm
BLE: -1.83dBm
2.4G WLAN: 19.42dBm
GSM 900: 35dBm
GSM 1800: 32dBm
WCDMA2100: 25dBm
WCDMA900: 25dBm
FDD LTE Band 1: 25dBm
FDD LTE Band 3: 25dBm
FDD LTE Band 7: 25dBm
FDD LTE Band 8: 25dBm
FDD LTE Band 20: 25dBm
FDD LTE Band 28: 25dBm
TDD LTE Band 38: 25dBm
TDD LTE Band 40: 25dBm
VHF:36.98dBm
Modulation Type(s):
Classic Bluetooth: GFSK, π/4 DQPSK, 8-DPSK
BLE: GFSK
2.4G WLAN: DSSS, OFDM
GSM: GMSK, 8PSK
WCDMA: QPSK

LTE : QPSK/16QAM
VHF:4FSK
Antenna type(s): Internal antenna

Technical Construction File (TCF) Details

To demonstrate conformity with Article 3.1(a) Health		
Applied Standards		
EN IEC 62311:2020		
Report or Certificate No.	Issue Date	Issued by
STS2309080H01	08/16/2023	SHENZHEN STS TEST SERVICES CO.,LTD
To demonstrate conformity with Article 3.1(a) Safety		
Applied Standards		
EN IEC 62368-1:2020 + A11:2020		
Report or Certificate No.	Issue Date	Issued by
EFGX23090105-IE-01-L01	09/22/2023	Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
To demonstrate conformity with Article 3.1(b) EMC		
Applied Standards		
ETSI EN 301 489-1 V2.2.3		
ETSI EN 301 489-5 V2.2.1		
ETSI EN 301 489-17 V3.2.4		
ETSI EN 301 489-19 V2.1.1		
ETSI EN 301 489-52 V1.2.1		
Report or Certificate No.	Issue Date	Issued by
STS2309080E01	08/09/2023	SHENZHEN STS TEST SERVICES CO.,LTD
To demonstrate conformity with Article 3.2 Spectrum Efficiency		
Applied Standards		
ETSI EN 300 328 V2.2.2		
ETSI EN 301 511 V12.5.1		
ETSI TS 151 010-1 V13.11.0		
ETSI EN 301 908-1 V15.1.1		
ETSI EN 301 908-2 V13.1.1		
ETSI EN 301 908-13 V13.1.1		
ETSI EN 303 413 V1.2.1		
ETSI EN 300 113 V3.1.1		
Report or Certificate No.	Issue Date	Issued by
EFGX23090105-IE-01-E01	09/25/2023	Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
EFGX23090105-IE-01-E02	09/25/2023	Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
EFGX23090105-IE-01-E03	09/25/2023	Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
STS2309080W01	08/16/2023	SHENZHEN STS TEST SERVICES CO.,LTD
STS2309080W02	08/16/2023	SHENZHEN STS TEST SERVICES CO.,LTD
STS2309080W03	08/16/2023	SHENZHEN STS TEST SERVICES CO.,LTD

To demonstrate conformity with Article 3.3 Emergency service		
Applied Standards		
N/A		
Report or Certificate No.	Issue Date	Issued by
N/A	N/A	N/A