

Certificate Holder:

f.u.n.k.e. AVIONICS

Magirusstraße 39/1

89077 Ulm Germany

Product Manufacturer:

See Certificate Holder

Product Designation:

TM350

Product Description:

Traffic monitor with GPS, WLAN, Flarm and 1090MHz (receive only)



Bundesnetzagentur

BNetzA-bS-02/51-52

authorized by the German Government to act as Notified Body in accordance with the RE Directive 2014/53/EU of 16 April 2014.

Conformity Assessment:

Essential requirements	Examined documentation	Result
Safety RED, Article 3.1a	Technical documentation including test report	conform
Health RED, Article 3.1a	Technical documentation including test report	conform
EMC RED, Article 3.1b	Technical documentation including test report	conform
Radio spectrum RED, Article 3.2	Technical documentation including test report	conform

EU Type Examination Certificate:

In accordance with Annex III of the European Council Directive 2014/53/EU on radio equipment, our opinion is that this equipment type complies with the essential requirements stated above.

The product shall be marked with the CE marking as required in the Council Directive 2014/53/EU.

Annexes:

The certificate is only valid in conjunction with the following number of annexes: 1

Conformity is provided unless changes/modifications have been done to the standard and/or assessed type of equipment.

Certificate Registration No.:

C € 0682

Saarbrücken

T818972P-01-TEC

CTC advanced GmbH



Authorized signature / title

Product Characteristics:

Hardware version:

HW100

Software version:

Firmware Version: 0.01 Software Version MicroBlaze: 0.03

Software Version HMI: 0.03 FLARM ATOM: 7.04_33320bd70

Bluetooth® Bluetooth® LE part:

Operating frequency range:

2400 - 2483.5 MHz

Number of channels:

Number of channels

79 / 40

EIRP:

≤ 10 dBm

Modulation:

GFSK, π/4-DQPSK, 8-DPSK

IEEE 802.11a/b/g/n/ac part:

Operating frequency range:

2400 - 2483.5 MHz

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EIRP:

≤ 20 dBm

Modulation:

DSSS, OFDM

868MHz part:

Operating frequency range:

868.0 - 868.6 MHz

Operating channel width

Receiver category

Number of channels

200 kHz

ERP: Modulation: ≤ 11.58 dBm

GFSK

1090 MHz part (receive only):

Operating frequency range:

1090 MHz

Number of channels

GNSS part:

GPS operating frequency:

Glonass operating frequency:

Galileo operating frequency: BDS (Beidou) operating frequency:

SBAS operating frequency:

1559 - 1610 MHz (L1)

1559 - 1610 MHz (G1)

1559 - 1610 MHz (E1)

1559 - 1610 MHz (B1I

1559 - 1610 MHz (L1)

Modulation:

BPSK

BOCcos, AltBOC(15,10

Other characteristics:

Operating temperature

-20 - 55 °C

Power supply

11 - 30Vdc (9 - 32Vdc extended)

Nominal: 14Vdc and 28Vdc



Conformity Assessment:

Evaluated test reports

Essential requirements	Examined documentation	
	EN 62368-1: 2014/AC: 2015/A11: 2017/AC:2017	
Safety	-No.: 1-2691/21-01-02 issued by CTC advanced GmbH	
	-No.: B2004279 issued by NB 1313	
	EN 62479:2010, EN 62311:2008,	
Health	Council Recommendation 1999/519/EC	
	-No.: B2004279 issued by NB 1313	
EMC	EN 301 489-1 V2.2.3, EN 301 489-3 V2.1.1, EN 301 489-17 V3.2.2,	
	EN 301 489-19 V2.1.0,	
	EN 55032:2021	
	-No.: B2004279 issued by NB 1313	
	-No.: WTX21X05045269W-2 issued by	
	Waltek Testing Group (Shenzhen) Co., Ltd.	
	-No.: f.u.n.k.e.AVIONICS GmbH-TM 350.en/Rev.0/07.2021 issued by hummel electronic	
	EN 300 328 V2.2.2, EN 300 440 V2.1.1, EN 303 413 V1.1.1,	
	EN 300 320 V2.2.2, EN 300 440 V2.1.1, EN 303 413 V1.1.1, EN 300 220-1 V3.1.1, EN 300 220-2 V3.1.1,	
	Selection of test cases according article 3.2.	
Radio spectrum	-No.: f.u.n.k.e.AVIONICS GmbH-TM 350.en/Rev.0/07.2021issued by Hummel electronic	
And the second	-No.: B2004279 issued by NB 1313	
	-No.: WTX21X05045265W issued by Waltek Testing Group (Shenzhen) Co., Ltd	

Miscellaneous:

- TD according to the application
 This Type Examination Certificate is only valid for the Radio Equipment Directive. Other directives was not part of this document.