

TYPE EXAMINATION CERTIFICATE

No.

8508-RER-6063

ISSUED BY	3C Test Limited - Approved Body No. 8508 (APPLUS)	
APPLICANT	TELTONIKA TELEMATICS, UAB	
MANUFACTURER (Name, Address)	TELTONIKA TELEMATICS, UAB Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania	
COMMERCIALISED BY (Brand)	TELTONIKA TELEMATICS	
PRODUCT	Asset Tracker Plus	
TYPES	TAT140-QJIB0	
HW / FMW version	SW: FMB.Ver.55.00.16 HW: TAT140-20	
APPLICABLE REGULATION	RADIO EQUIPMENT REGULATIONS 2017 (S.I. 2017/1206) ON THE MAKING AVAILABLE ON THE UK MARKET AND PUTTING INTO SERVICE OF RADIO EQUIPMENT	
DESCRIPTION	The device is an Asset Tracker Plus with Bluetooth, GSM, LTE and GNSS.	
MEET ESSENTIAL REQUIREMENTS	Reg. 6(1)(a) Health & Safety <input checked="" type="checkbox"/>	Reg. 6(2) Efficient use of Radio spectrum <input checked="" type="checkbox"/>
	Reg. 6(1)(b) EMC <input checked="" type="checkbox"/>	Reg. 6A(2) Special characteristics <input type="checkbox"/>

This document is not valid without its technical annex, whose number coincides with the number of the certificate. The evaluation of the technical documentation delivered is included in the technical file number: 23/36400962

This Certificate is valid as long as there are no changes in the prior art indicating that the approved radio equipment can no longer meet the essential requirements of Radio Equipment Regulations 2017 and there are no notifications of the approved type that may affect the Accordance with the essential requirements of Radio Equipment Regulations 2017.

Restrictions (if apply): N/A

Silverstone, 13th April 2023

P.P Arbi Aloui
 Steve Youngman
 Director
 Electrical & Electronics – United Kingdom



You can check the validity of this certificate into our website.



The manufacturer, after the completion of the technical documentation, the conformity assessment procedures and the Declaration of conformity, may affix the Marking UKCA under his responsibility.

TECHNICAL ANNEX

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A. MODEL DESCRIPTION

A.1. GENERAL INFORMATION ON THE RADIO EQUIPMENT:

Manufacturing country: Lithuania

Brand: TELTONIKA TELEMATICS

Commercial designation: TELTONIKA TELEMATICS

Country of commercialization: Great Britain (England, Wales and Scotland)

Radio service: Bluetooth, GSM, LTE and GNSS

Application: Asset Tracker Plus

A.1.1 TRADE VERSIONS/VARIANTS: TAT140-QJIB0

A.2. FEATURES: Asset Tracker Plus

A.3. SOFTWARE VERSION(S): FMB.Ver.55.00.16

A.4. HARDWARE VERSION(S): TAT140-20

A.5. OTHER COMPONENTS

- **Disposable antenna:** YES NO
 - o **Antenna gain (dBi)*:**
(*) only in case of YES

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A.6. OPERATING FREQUENCIES AND MAXIMUM POWER EMITTED BY BAND

BAND	SERVICE	OPERATIONAL FREQUENCY (TX)		MAX POWER¹⁾	RI
Band 1	Bluetooth LE	F_min: 2402MHz	F_max: 2480MHz	6.60 dBm	IR 2005
Band 2	GSM 900	F_min: 880MHz	F_max: 915MHz	32.63 dBm	IR 2014
Band 3	DCS 1800	F_min: 1710MHz	F_max: 1785MHz	30.08 dBm	IR 2014
Band 4	LTE Band 1	F_min: 1920MHz	F_max: 1980MHz	23.97 dBm	IR 2092
Band 5	LTE Band 3	F_min: 1710MHz	F_max: 1785MHz	23.71 dBm	IR 2087
Band 6	LTE Band 5**	F_min: 824MHz	F_max: 849MHz	23.53 dBm	N/D
Band 7	LTE Band 7	F_min: 2500MHz	F_max: 2570MHz	24.31 dBm	IR 2072
Band 8	LTE Band 8	F_min: 880MHz	F_max: 915MHz	24.65 dBm	IR 2087
Band 9	LTE Band 20	F_min: 832MHz	F_max: 862MHz	23.59 dBm	IR 2090
Band 10	LTE Band 28*	F_min: 703MHz	F_max: 748MHz	24.38 dBm	IR 2107
Band 11	GPS L1 C/A Receiver	F_min: 1559MHz	F_max: 1610MHz	N/A	N/D
Band 12	GLONASS G1 Receiver	F_min: 1559MHz	F_max: 1610MHz	N/A	N/D
Band 13	BDS B1I Receiver	F_min: 1559MHz	F_max: 1610MHz	N/A	N/D
Band 14	Galileo E1 Receiver	F_min: 1559MHz	F_max: 1610MHz	N/A	N/D

N/A: Not applicable

N/D: Not defined

Note1: Conducted power for mobile technologies and EIRP for other technologies.

Note*: Radio equipment in LTE band 28 is only allowed to operate between 703MHz to 736MHz for the transmitter and between 758MHz to 791MHz for the receiver.

Note**: LTE Band 5 is non-UK band but had been tested.

A.7. OTHER PARAMETERS OF RADIO INTERFACE SPECIFICATIONS (RI)

Requires license/Use authorization: YES NO

NOTE: Mobile / nomadic terminal stations are exempt from licensing

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B. TEST PROTOCOL

REQUIREMENT	STANDARD	Laboratory	Report no.
Health and Safety (Regulation 6(1)(a))	IEC 62368-1:2018	TA Technology (Shanghai) Co., Ltd.	R2211A1079-L1
	EN IEC 62368-1:2020+A11:2020 BS EN IEC 62368-1:2020+A11:2020		
	EN 50665:2017 BS EN 50665:2017	TA Technology (Shanghai) Co., Ltd.	R2211A1079-M1
	EN IEC 62311:2020 BS EN IEC 62311:2020		
EMC (Regulation 6(1)(b))	EN 55032:2015+A11:2020 BS EN 55032:2015+A11:2020	TA Technology (Shanghai) Co., Ltd.	R2211A1079-E1
	EN 55035:2017+A11:2020 BS EN 55035:2017+A11:2020		
	ETSI EN 301 489-1 V2.2.3		
	ETSI EN 301 489-17 V3.2.4		
	ETSI EN 301 489-19 V2.2.1		
	ETSI EN 301 489-52 V1.2.1		
Radio Aspects (Regulation 6(2))	ETSI EN 300 328 V2.2.2	TA Technology (Shanghai) Co., Ltd.	R2211A1078-R3V2
	ETSI EN 301 511 V12.5.1	TA Technology (Shanghai) Co., Ltd.	R2211A1078-R1V2
	ETSI EN 301 908-1 V15.1.1	TA Technology (Shanghai) Co., Ltd.	R2211A1078-R2V2
	ETSI EN 301 908-13 V13.2.1		
	ETSI EN 303 413 V1.2.1	TA Technology (Shanghai) Co., Ltd.	R2211A1078-R4V2

C. RESTRICTIONS (IF POSITIVE)

Restrictions: YES NO

Describe restrictions: N/A

TECHNICAL ANNEX

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D. ACTIVITIES CARRIED OUT BY THE A.B.

Technical Documentation Review

- | | | |
|---|---|--|
| <input type="checkbox"/> Assembly drawings(s) | <input checked="" type="checkbox"/> Block diagram | <input checked="" type="checkbox"/> Circuit diagram/schematics |
| <input checked="" type="checkbox"/> External photographs | <input checked="" type="checkbox"/> Label drawing/location | <input checked="" type="checkbox"/> User manual |
| <input checked="" type="checkbox"/> Internal photographs | <input checked="" type="checkbox"/> Operational description | <input checked="" type="checkbox"/> Risk Assessment |
| <input checked="" type="checkbox"/> Test set-up photographs | <input checked="" type="checkbox"/> Test reports | <input checked="" type="checkbox"/> Declaration of conformity |
| <input checked="" type="checkbox"/> Bill of materials | <input checked="" type="checkbox"/> PCB layout | |
| <input type="checkbox"/> Installation diagrams and explanations | <input checked="" type="checkbox"/> List of applied (designated and non-designated) standards | |

Other activities

- RIS
- OFCOM
- Review Technical Justifications
- Analysis report
- Type certification issued

E. ADDITIONAL INFORMATION:

Radio Equipment Regulations 2017, Regulation 11: Manufacturers must keep the technical documentation and the declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Regulations 2017, Schedule 3, Module B, paragraph 7(2): The manufacturer must inform the approved body that holds the technical documentation relating to the type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of these Regulations or the conditions for validity of that certificate. Such modifications require additional approval in the form of an addition to the original type examination certificate.

This review includes draft standards, deviations from the standards and technical justification for compliance.