



DATE: 2 February 2021

I.T.L. (PRODUCT TESTING) LTD.

**Test Report According to
EN 303 413 V1.1.1 (2017)**

For

Pointer Telocation

Equipment under test:

Fleet Management Device

CR400B LTE

Tested by:



M. Zohar

Approved by:



D. Shidlovsky

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1. General Information

1.1 Administrative Information

| | |
|--------------------------------|---|
| Manufacturer: | Pointer Telocation |
| Manufacturer's Address: | 14 Hamelacha, PO Box 11473 Roash Haain, Israel Tel: +972 73 2622320 |
| Manufacturer's Representative: | Igor Rogov |
| Equipment Under Test (E.U.T): | Fleet Management Device |
| Equipment Model No.: | CR400B LTE |
| Equipment Serial No.: | Not designated |
| Date of Receipt of E.U.T: | November 23, 2020 |
| Start of Test: | November 23, 2020 |
| End of Test: | November 23, 2020 |
| Test Laboratory Location: | I.T.L (Product Testing) Ltd. 1 Batsheva St., Lod ISRAEL 7120101 |
| Test Specifications: | EN 303 413 V1.1.1: 2017 (See *Note below) |

Note -

1. The E.U.T. contains a CE approved GNNS receiver module manufactured by Telit Communications S.p.A, model no. ME910C1-WW. (See EU Type Examination Certification on following page).
2. Accordingly, as agreed upon with the customer, only spurious emissions testing was performed.



DEKRA Testing and Certification, S.A.U.

Product certification body accredited by ENAC with accreditation No. 134/C-PR301
and designated by the competent national authority of Spain
to act as Notified Body (Notified Body No: 1909) in accordance with the Directive 2014/53/EU of 18 April 2014

Directive 2014/53/EU – EU-TYPE EXAMINATION CERTIFICATE

Identification Number: 63836RNB.001
Issue date: 2020-04-16

MANUFACTURER DETAILS:

Company name: Telit Communications S.p.A.
Address: Via Stazione di Prosecco, 5/B, I-34010 Sgonico (Trieste), Italy

EQUIPMENT DETAILS:

Type of equipment: Wireless module
Brand name: Telit
Model names:
HW version:
SW versions:

| ME910C1-WW | ME910C1-E2 | ME910C1-P2 | ME910C1-P1 |
|--|---|------------|--------------------------|
| 0.0 | 0.0 | 0.0 | 0.0 |
| MOB.800003 MOB.800004 MOB.800005 | 30.00.702-B004 30.00.702-B005 30.00.702-B007 30.00.703 MOB.700003 MOB.700004 MOB.700005 | MOB.950004 | MOB.900004 MOB.900005 |

SCOPE OF OPINION:

| Essential requirements | Specifications / Standards | Submitted documents |
|-----------------------------------|---|---------------------|
| Article 3.1(a): Electrical safety | EN 62368-1:2014 + AC:2015 + AC:2017 + A11:2017 | Test reports |
| Article 3.1(a): EMF exposure | EN 62311:2008 | Assessment report |
| Article 3.1(b): EMC | Draft EN 301 489-1 V2.2.0 Draft EN 301 489-19 V2.1.0 Draft EN 301 489-52 V1.1.0 | Test reports |
| Article 3.2: Radio spectrum use | EN 301 511 V12.5.1 ⁽¹⁾ EN 301 908-1 V11.1.1 Draft EN 301 908-13 V13.0.1 EN 303 413 V1.1.1 | Test reports |

OPINION:

Our opinion in accordance with Annex III of DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 April 2014 on radio equipment and the mutual recognition of their conformity is that the equipment complies with the requirements of that directive stated in the above scope.

This opinion has 1 annex with 2 pages and it is only valid in conjunction with it.

Signed on behalf of DEKRA Testing and Certification, S.A.U. in Málaga (Spain)

RICARDO OREJAS RODRIGUEZ
23.03.2019 10:11:45 +0200
DEKRA TESTING AND CERTIFICATION S.A.U.
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Name: Ricardo Orejas
Position: Responsible for Certification



Annex I to EU-Type Examination Certificate No. 63836RNB.001

TECHNICAL DOCUMENTATION:

Held at: Telit Communications S.p.A.
Address: Via Stazione di Prosecco
5/B, I-34010 Sgonico (Trieste) Italy
Technical Documentation Ref.: 30529TCF00151A Rev.0

TECHNICAL FEATURES AND CHARACTERISTICS:

Operation modes: GPRS⁽¹⁾, EDGE⁽¹⁾
LTE CAT-M1, LTE CAT-NB1
GNSS
Operating frequency bands: GPRS⁽¹⁾/EDGE⁽¹⁾: E-GSM 900, DCS 1800, EDGE 900; EDGE 1800
LTE: FDD⁽²⁾, FDD 3, FDD 8, FDD 20, FDD 28⁽²⁾
GNSS: GPS L1
Galileo E1
GLONASS G1
BDS B11
Modulations: GMSK, 8PSK, QPSK, 16QAM, $\pi/2$ BPSK, $\pi/4$ QPSK
Data rates (maximum): Uplink: 375 kbps, Downlink: 300 kbps
Output power (Rated): E-GSM 900⁽¹⁾: Class 4, DCS 1800⁽¹⁾: Class 1
EDGE 900⁽¹⁾: Class E2, EDGE 1800⁽¹⁾: Class E2
LTE CAT-M1: Class 3; LTE CAT-NB1: Class 3
Voltage range: 3.1 VDC to 4.5 VDC (Nominal: 3.8 VDC)
Temperature range: -10 °C to 55 °C
Antenna: External antenna. Impedance: 50 ohm
Intended use: GPRS⁽¹⁾/EDGE⁽¹⁾/LTE CAT-M1/NB1 module for IoT applications

CONFORMITY DETAILS:

| Essential requirements | Specifications / Standards | Reference documents |
|-----------------------------------|--|--|
| Article 3.1(a): Electrical safety | EN 62368-1:2014 + AC:2015 + AC:2017 + A11:2017 | 64317RSE.002 |
| Article 3.1(a): EMF exposure | EN 62311:2008 | 57538RAN.001 56663RAN.002A1 |
| Article 3.1(b): EMC | Draft EN 301 489-1 V2.2.0 Draft EN 301 489-19 V2.1.0 Draft EN 301 489-52 V1.1.0 | 56663REM.004A1 1860153R-RFCEP23V00 1860156R-RFCEP01V00 2528ERM.001 |
| Article 3.2: Radio spectrum use | EN 301 511 V12.5.1 EN 301 908-1 V11.1.1 Draft EN 301 908-13 V13.0.1 EN 303 413 V1.1.1 | 56663REM.005A1 56663REM.006A1 56663REM.007A1 56663RMV.001A1 1820125R-001 Ver. 02 SZEM1803001756CF 1860156R-HPCEP11V00 1860156R-HPCEP11V00-A 1860154R-002.03 1860153R-RFCEP55V00 MDE_DEKRA_1804_01 EG/2019/40008 EG/2018/30023D 60864RMV.004 |



REMARKS AND COMMENTS:

⁽¹⁾ Not applicable for ME910C1-P1 device.

⁽²⁾ Not applicable for ME910C1-E2 device.

Device tested with a reference antenna (Type n° T-AT314; $\lambda/4$ monopole) with maximum gain of 2.14 dBi. The use of different antennas may affect the compliance; if the manufacturer is in doubt about the compliance then the equipment with the new antennas must be assessed to demonstrate compliance with the essential requirements of the Directive 2014/53/EU. It should be noted that assessment does not necessarily lead to testing.

SW evolution of the devices, as described in the "Equipment Details" chapter, has been analysed and has no impact on the compliance with essential requirements of the devices.

These devices have been evaluated on a test jig. These radio modules are for professional installation only. When installing these radio modules permanently into a host product to create new radio equipment device; the manufacturer responsible for placing the final radio product on the market in the EU must assess if the combination of this radio module and the host product complies with the essential requirements of the RE Directive 2014/53/EU.

Host devices integrating these devices will need to be evaluated according to the essential requirements of Directive 2014/53/EU following the guidelines provided in the document "REDCA Technical Guidance Note D1 on the RED compliance requirements for a Radio Equipment often referred to as Radio Module and the Final Radio Equipment Product that integrates a Radio Module". This Technical Guidance Note may be accessed in RED Compliance Association website or may be obtained by contacting with DEKRA Testing and Certification, S.A.U. Notified Body at certification.rob.es@dekra.com.

The devices also operate in other non EU frequency bands. This operation has not been evaluated in this opinion.

It is mandatory to inform DEKRA Testing and Certification, S.A.U. in writing about any change in the approved equipment identified in this certificate, which could affect the conformity of the apparatus with the essential requirements or the conditions of validity of this certificate.

This certificate supersedes and replaces existing certificate 60864RNB.001A1.



1.2 Abbreviations and Symbols

The following abbreviations and symbols are applicable to this test report:

| | |
|--------------|---|
| A/m | ampere per meter |
| AC | alternating current |
| AM | amplitude modulation |
| ARA | Antenna Research Associates |
| Aux | auxiliary |
| Avg | average |
| CBW | channel bandwidth |
| CDN | coupling-decoupling network |
| cm | centimeter |
| dB | decibel |
| dBm | decibel referred to one milliwatt |
| db μ V | decibel referred to one microvolt |
| db μ V/m | decibel referred to one microvolt per meter |
| DC | direct current |
| EFT/B | electrical fast transient/burst |
| EMC | electromagnetic compatibility |
| ESD | electrostatic discharge |
| E.U.T. | equipment under test |
| GHz | gigahertz |
| HP | Hewlett Packard |
| Hz | Hertz |
| kHz | kilohertz |
| kV | kilovolt |
| LED | light emitting diode |
| LISN | line impedance stabilization network |
| m | meter |
| mHn | millihenry |
| MHz | megahertz |
| msec | millisecond |
| N/A | not applicable |
| per | period |
| QP | quasi-peak |
| PC | personal computer |
| RF | radio frequency |
| RE | radiated emission |
| sec | second |
| V | volt |
| V/m | volt per meter |
| VRMS | volts root mean square |



1.3 List of Accreditations

The EMC laboratory of I.T.L. is accredited by the following bodies:

1. The American Association for Laboratory Accreditation (A2LA) (U.S.A.), Certificate No. 1152.01.
2. The Federal Communications Commission (FCC) (U.S.A.), FCC Designation Number IL1005.
3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
4. Department of Innovation, Science and Economic Development (ISED) Canada, CAB identifier: IL1002

I.T.L. Product Testing Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with I.T.L.'s terms of accreditation unless stated otherwise in the report.



2. Applicable Documents

2.1 **EN 303 413**
V1.1.1 (2017)

Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU



3. Test Site Description

3.1 Location:

The Electromagnetic Compatibility Test Facility of I.T.L. (Product testing) Ltd. Is located at

Telrad Industrial Park, Lod, 7120101 Israel.

Telephone: +972-8-9153100

Fax: +972-8-9153101

3.2 Shielded Room:

A Modular Shielded Room, Type 20 SpaceSaver, manufactured by ETS, consisting of a Main Room and a Control Room.

The dimensions of the Main Room are: length: 7.0 m, width: 3.0 m, height: 3.0 m.

The shielding performance is:

magnetic field: 60 dB at 10 kHz rising linearly to 100 dB at 100 kHz,

electric field: better than 110 dB between 50 MHz and 1 GHz,

plane wave: 110 dB between 50 MHz and 1 GHz.

All the power lines entering the shielded room are filtered.

3.3 Open Site:

The OATS is located on a one floor-building roof. The OATS consists of 3 meter and 10 meter ranges, using a 21.5m X 8.5m solid metal ground plane, a remote controlled turntable and an antenna mast.

3.4 Ground Plane:

The ground plane is made from steel plates, which are welded continuously together. The Ground plane is lies and welded on welded steel construction with vias to allow for water drainage. All the power, control, and signal lines to the turntable and the 3 m and 10m antenna mast outlets are routed in shielded conduits under the plane to the control building.

3.5 Antenna Mast:

ETS model 2070-2. The antenna position and polarization are remote controlled via Fiber Optical Link using ETS/EMCO Dual Controller Type 2090. The antenna position is adjustable between 1-4 meters. Pressurized air is used to power changing the polarity of the antenna.

3.6 Turntable:

ETS model 2087 series. The position of the turntable is remote-controlled via Fiber Optic Link, using ETS/EMCO Dual Controller Type 2090. The turntable is mounted in a pit and its surface is flush with the Open Site Ground Plane. Brushes near the periphery of the turntable ensure good conductive connection to the ground plane. The Turntable maximum load is 1250 Kg.



3.7 EMI Receiver:

Type ESCI7, manufactured by Rohde & Schwarz, being in full compliance with CISPR 16-1-1 requirements.

3.8 E.U.T. Support:

Table mounted E.U.T.s are supported during testing on 150 cm high all plastic table.

3.9 Test Equipment:

See details in Section 6.



4. Summary of Test Results

| Test | Results |
|--|--|
| Spurious Emissions EN 303 413 V1.1.1 (2017) Section 4.2.2., Section 5.5 | The E.U.T met the performance requirements of the specification. |



5. Equipment Under Test (E.U.T.) Description

The Cellocator CR-400 is Cellocator's next generation fleet and security management device, and is based on the LTE Cat M1 network with 2G fallback.

The CR-400 is a high quality, yet cost effective and easy to install device, with built-in BLE connectivity and LED indicators. It is equipped with a large rechargeable backup battery (1000mAh) and includes basic driver behavior capabilities and built-in motion sensors that enable movement and towing detection to endure improved compliance with vehicle security requirements.

6. List of Test Equipment

6.1 Radio Tests

The equipment listed below were used for testing according to EN 303 413 V1.1.1 (2017), Sections 4.2.2, 5.5.

Test equipment calibration is in accordance with ITL Q.A. Procedure PM 110 "Calibration Control Procedure", which complies with ISO 9002 and ISO/IEC Guide 17025.

| Instrument | Manufacturer | Model | Serial No. |
|-----------------------------|-----------------|--------------|---------------|
| EMI Receiver | R&S | ESCI7 | 100724 |
| Spectrum Analyzer | HP | 8564E | 3442A00275 |
| EMI Receiver | HP | 8542E | 3906A00276 |
| RF Filter Section | HP | 85420E | 3705A00248 |
| EMI Test Receiver | R&S | ESN | 835420/008 |
| Spectrum Analyzer | HP | 8593EM | 3536A00120ADI |
| Biconical Antenna | EMCO | 3110B | 9912-3337 |
| Log Periodic Antenna | EMCO | 3146 | 9505-4081 |
| 1G-18GHz Horn Antenna | ETS | 3115 | 29845 |
| Low Noise Amplifier | Narda | DBS-0411N313 | 13 |
| Low Noise Amplifier | Sophia Wireless | LNA28-B | 232 |
| Semi Anechoic Civil Chamber | ETS | S81 | SL 11643 |
| Signal Generator | Wiltron | 6747B | 278007 |

7. E.U.T. Mode of Operation

1. The E.U.T contain a CE certified GPS receiver module.
2. The evaluation was performed in receive mode.



Figure 1. Test Set-Up

8. Spurious Emissions

8.1 Test Specification

EN 303 413 V1.1.1 (2017) Sections 4.2.2, 5.5

8.2 Test Procedure

(Temperature (20°C)/ Humidity (58%RH))

The test was performed in the frequency band 30MHz –12.75GHz.

For 30.0MHz-1000.0MHz range:

A preliminary measurement to characterize the E.U.T was performed inside the shielded room at a distance of 3 meters, using peak detection mode and broadband antennas. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 1.5 meters above the ground. The distance between the E.U.T and the testing antenna was 3 meters. The readings were maximized by adjusting the antenna height between 1-4 meters, the turntable azimuth between 0-360°, and the antenna polarization. The frequency range 30.0MHz-1000.0MHz was scanned.

For 1000.0MHz-8,300.0MHz range:

The E.U.T was placed in the chamber and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 1.5 meters above the ground. The distance between the E.U.T and the testing antenna was 3 meters. The readings were maximized by adjusting the turntable azimuth between 0-360° and the antenna polarization. The frequency range 1000.0 MHz-8,300.0MHz was scanned.

For all the tests a RMS detector was used.

The E.U.T. was replaced by a substitution antenna. The substitution antenna was driven by a signal generator operating in C.W. Mode. The height of the test antenna was adjusted for maximum level.

The input signal of the substitution antenna was adjusted to the level that produced a receiver reading equal to the level noted while the spurious emissions of the E.U.T. were measured.

The above tests were performed in both horizontal and vertical polarizations.

The receiver was set to the lowest operating frequency and to the highest operating frequency.

The spurious emission was calculated as follows:

Signal Generator Level (dBm) – Cable Loss (dB) + Substitution Antenna Gain (dBi/dBd).

The E.U.T was evaluated in Rx mode.

8.3 Test Limit

The unwanted emissions in the spurious domain shall not exceed the values given in the next table. In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and as e.i.r.p. for emissions above 1 GHz.

| Frequency range | Maximum power | Measurement bandwidth |
|------------------|---------------|-----------------------|
| 30 MHz to 1 GHz | -57 dBm | 100 kHz |
| 1 GHz to 8.3 GHz | -47 dBm | 1 MHz |

8.4 Test Results

The E.U.T met the requirements of EN 303 413 V1.1.1 (2017) Sections 4.2.2, 5.5 specification.

No emissions were detected above the spectrum analyzer noise level which is at least 6dB below the limit.

9. Set Up Photographs



Figure 2 Spurious Emission Test, 1000-8,300MHz



10. APPENDIX A - CORRECTION FACTORS

10.1 Correction factors for RF OATS CABLE 35m

| Frequency (MHz) | E.U.T loss (dB) |
|-----------------|-----------------|
| 30.0 | -1.3 |
| 50.0 | -1.7 |
| 100.0 | -2.6 |
| 200.0 | -3.7 |
| 300.0 | -4.7 |
| 400.0 | -5.5 |
| 500.0 | -6.3 |
| 600.0 | -7.0 |
| 700.0 | -7.6 |
| 800.0 | -8.4 |
| 900.0 | -9.0 |
| 1000.0 | -9.6 |



10.2 Correction factor for RF CABLE for Semi Anechoic Chamber
ITL # 1841

| Frequency (GHz) | Loss Result (dB) |
|------------------------|-------------------------|
| 0.5 | -1.0 |
| 1.0 | -1.4 |
| 1.5 | -1.7 |
| 2.0 | -2.0 |
| 2.5 | -2.3 |
| 3.0 | -2.6 |
| 3.5 | -2.8 |
| 4.0 | -3.1 |
| 4.5 | -3.3 |
| 5.0 | -3.6 |
| 5.5 | -3.7 |
| 6.0 | -4.0 |
| 6.5 | -4.4 |
| 7.0 | -4.7 |
| 7.5 | -4.8 |
| 8.0 | -5.0 |
| 8.5 | -5.1 |
| 9.0 | -5.6 |
| 9.5 | -5.8 |
| 10.0 | -6.0 |
| 10.5 | -6.2 |
| 11.0 | -6.2 |
| 11.5 | -6.0 |
| 12.0 | -6.0 |
| 12.5 | -6.1 |
| 13.0 | -6.3 |
| 13.5 | -6.5 |
| 14.0 | -6.7 |
| 14.5 | -7.0 |
| 15.0 | -7.3 |
| 15.5 | -7.5 |
| 16.0 | -7.6 |
| 16.5 | -8.0 |
| 17.0 | -8.0 |
| 17.5 | -8.1 |
| 18.0 | -8.2 |
| 18.5 | -8.2 |
| 19.0 | -8.3 |
| 19.5 | -8.6 |
| 20.0 | -8.5 |

long

10.3 Correction factors for *Horn ANTENNA*

| FREQUENCY | AFE | FREQUENCY | AFE |
|------------------|---------------|------------------|---------------|
| (GHz) | (dB/m) | (GHz) | (dB/m) |
| 0.75 | 25 | 9.5 | 38 |
| 1.0 | 23.5 | 10.0 | 38.5 |
| 1.5 | 26.0 | 10.5 | 38.5 |
| 2.0 | 29.0 | 11.0 | 38.5 |
| 2.5 | 27.5 | 11.5 | 38.5 |
| 3.0 | 30.0 | 12.0 | 38.0 |
| 3.5 | 31.5 | 12.5 | 38.5 |
| 4.0 | 32.5 | 13.0 | 40.0 |
| 4.5 | 32.5 | 13.5 | 41.0 |
| 5.0 | 33.0 | 14.0 | 40.0 |
| 5.5 | 35.0 | 14.5 | 39.0 |
| 6.0 | 36.5 | 15.0 | 38.0 |
| 6.5 | 36.5 | 15.5 | 37.5 |
| 7.0 | 37.5 | 16.0 | 37.5 |
| 7.5 | 37.5 | 16.5 | 39.0 |
| 8.0 | 37.5 | 17.0 | 40.0 |
| 8.5 | 38.0 | 17.5 | 42.0 |
| 9.0 | 37.5 | 18.0 | 42.5 |



10.4 Correction factors for *Log Periodic Antenna*

| Frequency [MHz] | ITL 1349 AF [dB/m] |
|--------------------|-----------------------|
| 200 | 11.31 |
| 250 | 11.85 |
| 300 | 14.47 |
| 400 | 15.12 |
| 500 | 17.69 |
| 600 | 18.45 |
| 700 | 20.52 |
| 800 | 20.77 |
| 900 | 21.97 |
| 1000 | 23.21 |



11.5 Correction factors for Biconical Antenna ITL # 1356

| Frequency | ITL 1356 AF |
|------------------|--------------------|
| [MHz] | [dB/m] |
| 30 | 14.77 |
| 35 | 13.46 |
| 40 | 12.57 |
| 45 | 11.62 |
| 50 | 10.87 |
| 60 | 9.19 |
| 70 | 9.52 |
| 80 | 9.55 |
| 90 | 9.27 |
| 100 | 10.20 |
| 120 | 11.18 |
| 140 | 12.02 |
| 160 | 12.62 |
| 180 | 13.44 |
| 200 | 14.82 |



11. APPENDIX B - MEASUREMENT UNCERTAINTY

| | |
|-------------------------------|---|
| Unwanted Emissions, conducted | $\pm 25.53\%$ or $\pm 0.99\text{dB}$, Up to 2.9GHz and $\pm 26.91\%$ or $\pm 1.03\text{dB}$ from 2.9GHz to 12.75GH |
| All emissions, radiated | $\pm 4.58\text{dB}$ Up to 2.9GHz, and $\pm 2.92\text{dB}$ from 2.9GHz to 12.75GHz |