




Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

Via Consiglio dei Sessanta, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

	Concernente ^{2/} Concerning ^{2/}	Il rilascio dell'omologazione <i>Approval granted</i> L'estensione dell'omologazione <i>Approval extended</i> Il rifiuto dell'omologazione <i>Approval refused</i> La revoca dell'omologazione <i>Approval withdrawn</i> La cessazione definitiva della produzione <i>Production definitively discontinued</i>
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of a type of electrical/electronic sub-assembly ⁽²⁾ with regard to Regulation no. 10.06

Omologazione N. <i>Approval No.</i>	E57*10R06/02*0770	Estensione N. <i>Extension No.</i>	00
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Marchio di omologazione <i>Approval mark</i>	 10R – 06 0770
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1. Make (trade name of manufacturer): N/A
2. Type and general commercial description(s):
Type: FMB209-TAAB0
Commercial description: Fleet Management System
3. Means of identification of type, if marked on the vehicle/component/separate technical unit ⁽²⁾
Type and Commercial description
- 3.1 Location of that marking: Label pasted on the cable
4. Category of vehicle: M,N,O

5. Name and address of manufacturer: UAB TELTONIKA TELEMATICS
Saltoniškių g. 9B-1, LT-08105, Vilnius, Lithuania

6. In the case of components and separate technical units, location and method of affixing of the approval mark: N/A

7. Address(es) of assembly plant(s): TELTONIKA EMS, UAB
Ditvos g. 6, LT-02121, Vilnius, Lithuania

8. Additional information (where applicable): See appendix below

9. Technical Service responsible for carrying out the tests: **AUTOMOTIVE TECHNICAL SERVICE S.r.l.**
Via Consiglio dei Sessanta, 99
47891 – DOGANA Repubblica di San Marino

10. Date of test report: 15/05/2024

11. No. of test report: ATS-SM-IR-10-12784

12. Remarks (if any): See appendix below

13. Place: DOGANA – Repubblica di San Marino

14. Date: 25/06/2024

15. Signature:



Ing. Marco Conti
Direttore Generale
General Director

16. The index to the information package lodged with the Approval Authority, which may be obtained on request, is attached.

17. Reasons for extension: Not Applicable

(2) *Strike out what does not apply.*

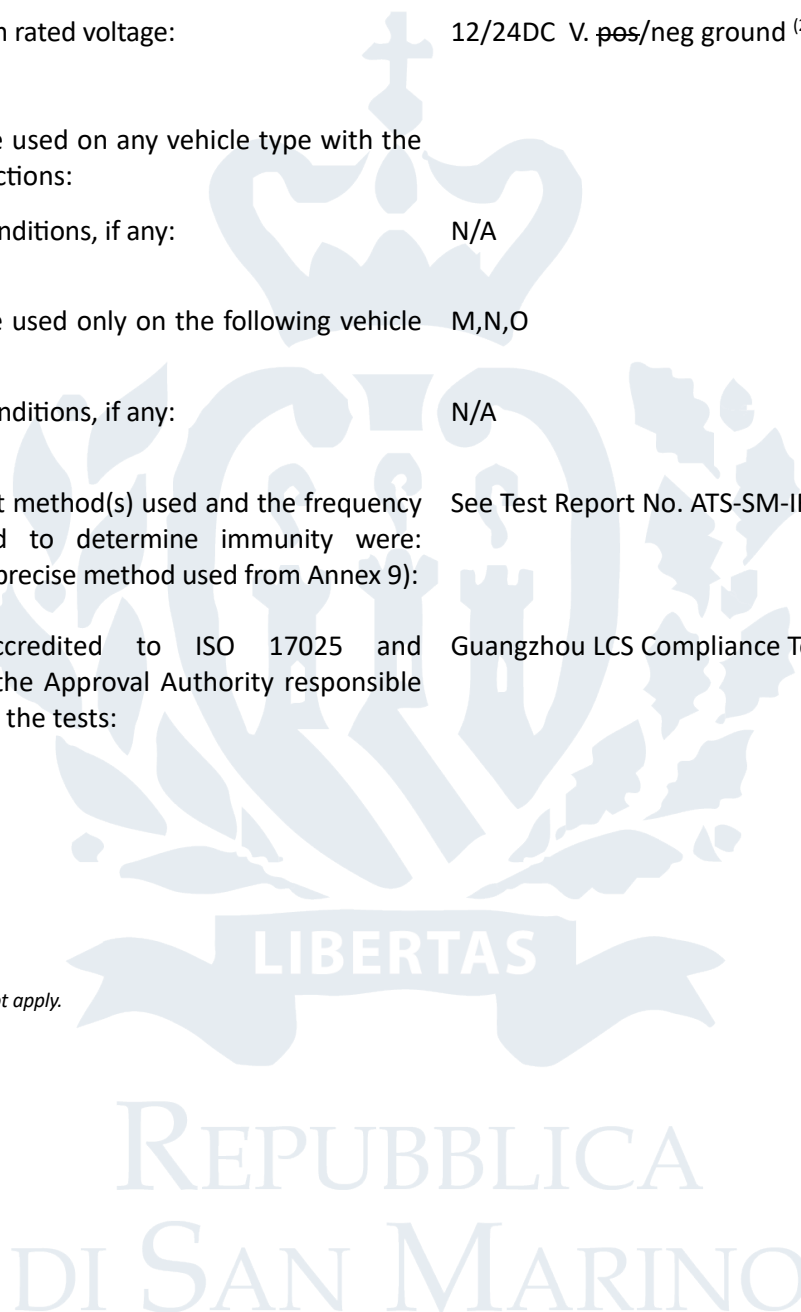
**Appendix to type-approval communication form No. E57*10R06/02*0770*00
concerning the type-approval of an ~~electrical~~/electronic sub-assembly
under Regulation No. 10**

1. Additional information:

- 1.1. Electrical system rated voltage: 12/24DC V. ~~pos~~/neg ground ⁽²⁾
- 1.2. This ESA can be used on any vehicle type with the following restrictions:
- 1.2.1. Installation conditions, if any: N/A
- 1.3. This ESA can be used only on the following vehicle type: M,N,O
- 1.3.1. Installation conditions, if any: N/A
- 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were:
(Please specify precise method used from Annex 9): See Test Report No. ATS-SM-IR-10-12784
- 1.5. Laboratory accredited to ISO 17025 and recognised by the Approval Authority responsible for carrying out the tests: Guangzhou LCS Compliance Testing Laboratory Ltd.

2. Remarks:

(2) *Strike out what does not apply.*



Allegato <i>Enclosure</i>			
Al certificato di omologazione ECE N. <i>To ECE approval certificate No.</i>		E57*10R06/02*0770*00	
Indice del fascicolo di omologazione <i>Index to the information package</i>			
Data <i>Date of issue</i>	25/06/2024	Data ultima modifica <i>Last amendment date</i>	--
1.	Clausole di garanzia e istruzioni sul diritto di presentare ricorso <i>Collateral clauses and instruction on right to appeal</i>		
2.	Rapporto(i) Finale di Ispezione No. <i>Test report(s) No.</i>	ATS-SM-IR-10-12784	Data <i>Date</i> 15/05/2024
3.	Scheda informativa N. <i>Information document No.</i>	FMB209-TAAB0-R10-00	Data <i>Date</i> 13/05/2024
			Data ultima modifica <i>Last amendment date</i> --



Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso del **Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate al **Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'**Autorità per l'Omologazione** può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'**Autorità per l'Omologazione** possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all' **Autorità per l'Omologazione** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

Collateral clauses and instruction on right to appeal

Collateral clauses

*The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.*

*Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation**. Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.*

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

*The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.*

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.*

Inspection Report No.: AT5-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Inspection Report

No. AT5-SM-IR-10-12784

Inspection concerning vehicles / components with regard to:

Uniform provisions concerning the approval of electrical/electronic sub-assembly with regard to electromagnetic compatibility (EMC)

performed according to

ECE Regulation No. 10

as last amended by

06 series of amendments (supplement no. 02)

of the Economic Commission for Europe

Approval status	
ECE	Number of approval
	E57*10R06/02*0770*00

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

0. General information

0.1. Make (trade name of manufacturer): N/A

0.2. Type: FMB209-TAAB0

0.2.1. Variants: N/A

0.3. Name and address of manufacturer: UAB TELTONIKA TELEMATICS
Saltoniškių g. 9B-1, LT-08105, Vilnius, Lithuania

0.3.1. Name and address of manufacturer's authorized representative: N/A

0.3.2. Production plant(s) address(es): TELTONIKA EMS, UAB
Ditvos g. 6, LT-02121, Vilnius, Lithuania

0.4. No. of the information document: FMB209-TAAB0-R10-00 Date: 13/05/2024

0.5. Position of the approval mark: Engraved on the terminal housing

0.6. Vehicle category: M,N,O
(or, if not applicable, vehicle categories which the component(s) is (are) suitable for):

Inspection Report No.: ATS-SM-IR-10-12784



Of: 15/05/2024

Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

1. Test Condition

- 1.1. Test sample: The model of test report is according to customer's requirements.
Performance criterion A: During and after the test, EUT work normally, the EUT properly.
- 1.2. Test procedures used: ECE Regulation No.10.06 Annex 7,8,9,10
- 1.3. Specimen submitted to test on: 1
- 1.4. Place of test: Guangzhou LCS Compliance Testing Laboratory Ltd.

1.5. Date of test: 14/5/2024 ~ 15/5/2024

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

2. Test records

2.1. Equipment for measuring and testing: The test facilities / measurement equipment used were in testing compliance with the test requirements.

2.2. Conformity with the technical sheet and attached drawings: SI / YES NO / NO NR / NA

2.3 Test results

2.3.1 Broadband electromagnetic interference generated by ESAs

2.3.1.1 Method of measurement: Measured by the method described in Annex 7 of ECE Regulation No. 10.

2.3.1.2 Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.3.2. Narrowband electromagnetic interference generated by ESAs

2.3.2.1. Method of measurement: Measured by the method described in Annex 8 of ECE Regulation No. 10.

2.3.2.2. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.3.3 Immunity of ESAs to electromagnetic radiation:

2.3.3.1. Method of measurement: Measured by the method described in Annex 8 of ECE Regulation No. 10.

2.3.3.2. Performance criteria:

2.3.3.3. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

2.3.4. Immunity of ESAs to transient disturbances

2.3.4.1. Method of measurement: Measured by the method described in Annex 10 of ECE Regulation No. 10.

2.3.4.2. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.3.5. Emission of transient conducted disturbances generated by ESAs

2.3.5.1. Method of measurement: Measured by the method described in Annex 10 of ECE Regulation No. 10.

2.3.5.2. Results: Conform / ~~Not Conform~~
(Test data see Annex 2)

3. **Remark concerning tested object(s)** All versions of the samples as stated in the information document are covered with the tested version(s) and test object(s) respectively.

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

4. Other information

Place of testing: Guangzhou LCS Compliance Testing Laboratory Ltd.

Date of testing: 14/5/2024 ~ 15/5/2024

	Senior Inspector	Junior Inspector (if applicable)
Technical service representative:	Andy Yang	/

Manufacturer's representative: N/A

Remarks: N/A

4.1 Appendix

1. List of modifications
2. Test Data
3. Sample Photo(s)
4. List of main test equipment

4.2 Enclosures

Information Folder

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

5. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

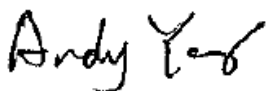



With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see paragraph 1).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R10-06 ECE/UN.

The test report comprises pages 1 to 17.

It shall not be reproduced except in full, without written approval of the laboratory.

Dogana, Repubblica di San Marino, 15/05/2024

<i>No. of project and protocol</i>	<i>Originality Check (*)</i>	Automotive Technical Service S.r.l. <i>Inspector</i>  (Andy Yang)	
	 ATS-SM-PR-12784	Automotive Technical Service S.r.l. <i>Deputy Technical Director</i>  (Eng. Bogdan Nicolae Domnescu)	

(*) To check the originality of documents, scan the QR Code or connect to the site <https://www.ats.sm/originality-control-atp-adr-tyapp/> and follow the instruction in it.

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Appendix 1

List of modifications

Applicable / Not Applicable

Appendix 1

More details for application of

Date :

Correction of : -

Modification of : -

Addition of : -

Deletion of : -



Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Appendix 2

Test data

Appendix 2

1 Test object(s)

1.1. Commercial description: Fleet Management System

1.2. Type: FMB209-TAAB0

1.2.1. Variants:

1.3. Technical data of the tested ESA type

1.3.1. Electrical system rated voltage: 12/24V DC pos./neg. ground

1.3.2. This ESA can be used on any vehicle type with the following restrictions: yes

1.3.3. Installation conditions: See Information Folder

1.3.4. This ESA can be used on the following vehicle types: M,N,O

1.3.5. Installation conditions: N/A

Test data

Appendix 2

Test results (12V)

1. Broadband / narrowband electromagnetic interference generated by ESAs

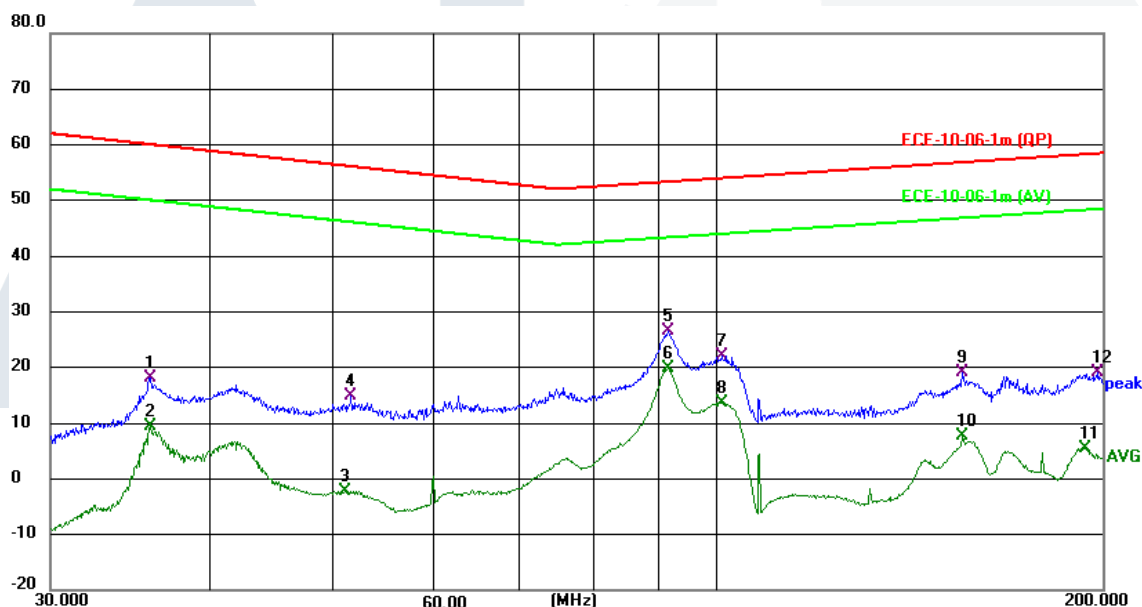
Radiated broadband electromagnetic Emissions : as shown in table 1

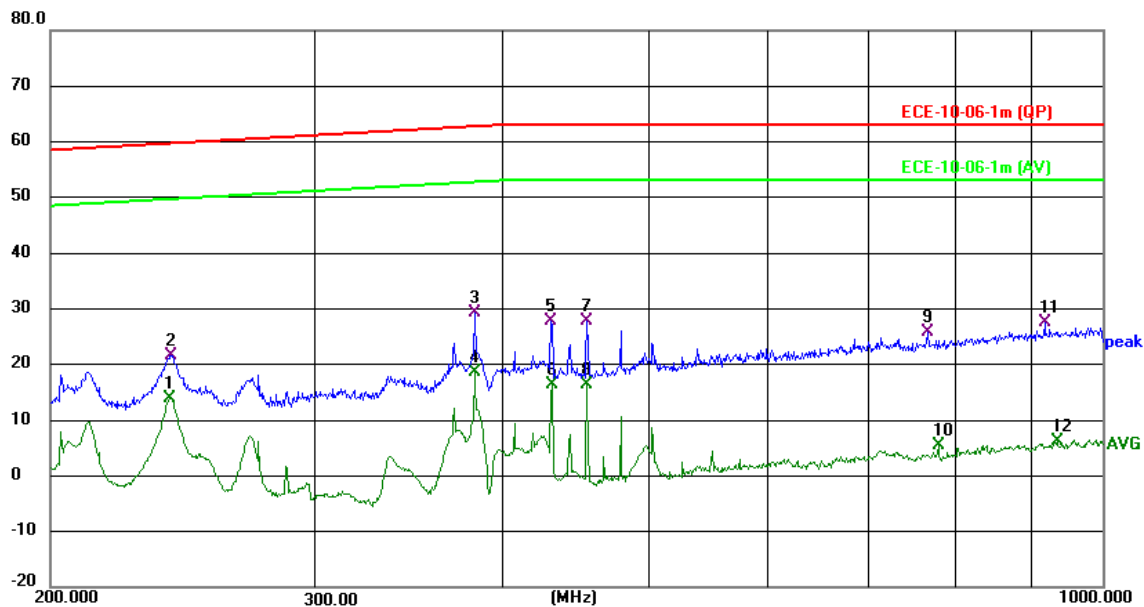
Radiated narrow band electromagnetic Emissions : as shown in table 2

Antenna position : horizontal and vertical

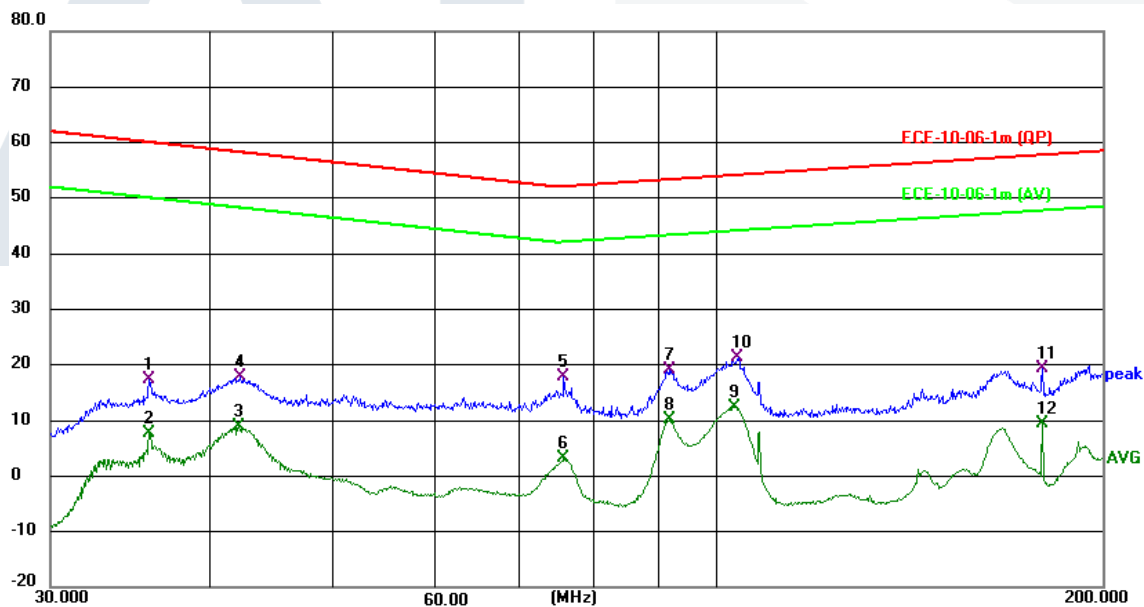
Rated voltage : DC 12V

Horizontal Polarity Test Result Diagram (Broadband and Narrow band)





Vertical Polarity Test Result Diagram (Broadband and Narrow band)



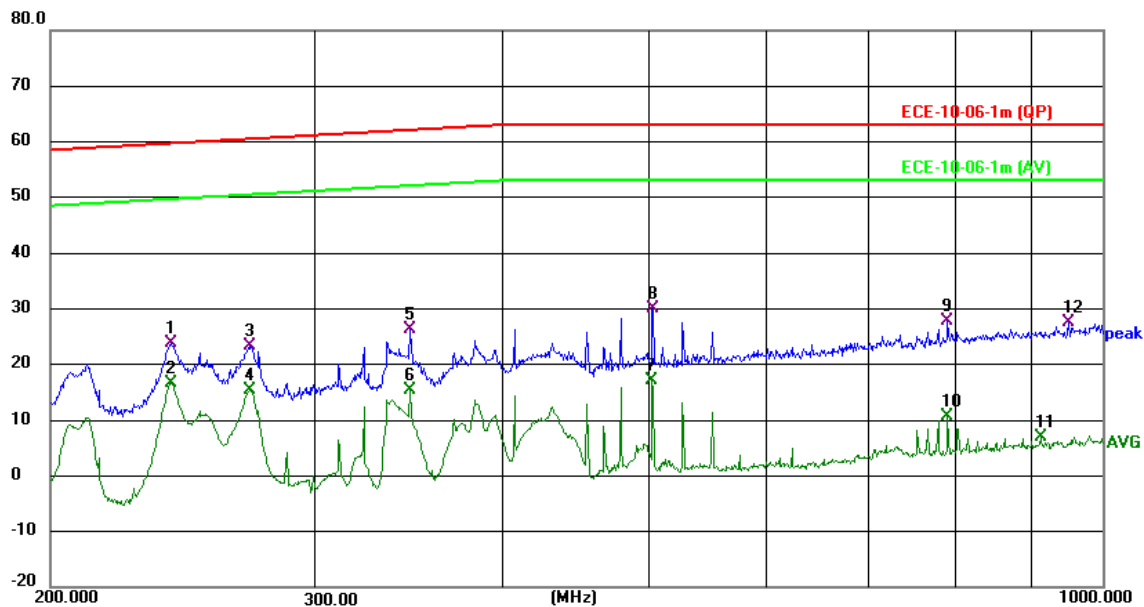
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Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS



Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Test data

Appendix 2

Maximum broadband QP value (Horizontal Polarity):

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
240.89	21.50	100	H	38.17	59.67
383.12	29.30	100	H	33.42	62.72
430.94	27.86	100	H	35.14	63.00
454.85	27.77	100	H	35.23	63.00
766.28	25.67	100	H	37.33	63.00
916.55	27.47	100	H	35.53	63.00

Maximum broadband QP value (Vertical Polarity):

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
240.74	23.86	100	V	35.80	59.66
271.46	23.19	100	V	37.26	60.45
347.21	26.22	100	V	35.85	62.07
502.97	30.09	100	V	32.91	63.00
790.22	27.86	100	V	35.14	63.00
950.81	27.44	100	V	35.56	63.00

Maximum narrowband AV value (Horizontal Polarity):

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
240.59	13.96	100	H	35.70	49.66
383.12	18.70	100	H	34.02	52.72
431.00	16.38	100	H	36.62	53.00
454.85	16.37	100	H	36.63	53.00
778.28	5.55	100	H	47.45	53.00
933.80	6.30	100	H	46.70	53.00

Maximum narrowband AV value (Vertical Polarity):

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
240.74	16.61	100	V	33.05	49.66
271.58	15.40	100	V	35.06	50.46
347.21	15.48	100	V	36.59	52.07
502.82	17.01	100	V	35.99	53.00
790.22	10.71	100	V	42.29	53.00
909.86	6.88	100	V	46.12	53.00

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Test data

Appendix 2

2. Immunity of ESAs to electromagnetic radiation

Test method : Measured by the method described in Annex 9 of ECE Regulation NO.10.

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20-400	60mA	AM	150mm	/	Pass
400-1000	30V/m	PM1	1m	Vertical	Pass
1000-2000	30V/m	PM1	1m	Vertical	Pass

Remark:

* no degradation of performance of 'immunity-related functions.

3. Immunity of ESAs to transient disturbances

Test method : Measured by the method described in Annex 10 of ECE Regulation NO.10.

Measurement result:

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status*	Status of function true value (mode 1)	Result
1	-75	5000 pulses	0.5s	C	C	Pass
2a	+37	5000 pulses	0.2s	B	A	Pass
2b	+10	10 pulses	0.5s	C	C	Pass
3a	-112	1h	90ms	A	A	Pass
3b	+75	1h	90ms	A	A	Pass
4	-6	1 pulse	N/A	C	C	Pass

Remark:

* Class A: all functions of a device/system perform as designed during and after exposure to disturbance.

Class B: all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.

Class C: one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.

Class D: one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.

Class E: one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Test data

Appendix 2

2. Emission of transient conducted disturbances generated by ESAs

Test method Measured by the method described in Annex 10 of ECE Regulation NO.10.

Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True Value(Fast)	Measured Pulse amplitude True Value(Slow)
Positive	+75V	13.32V	15.84V
Negative	-100V	-1.44V	-0.60V



Test data

Appendix 2

Test results (24V)

1. Broadband / narrowband electromagnetic interference generated by ESAs

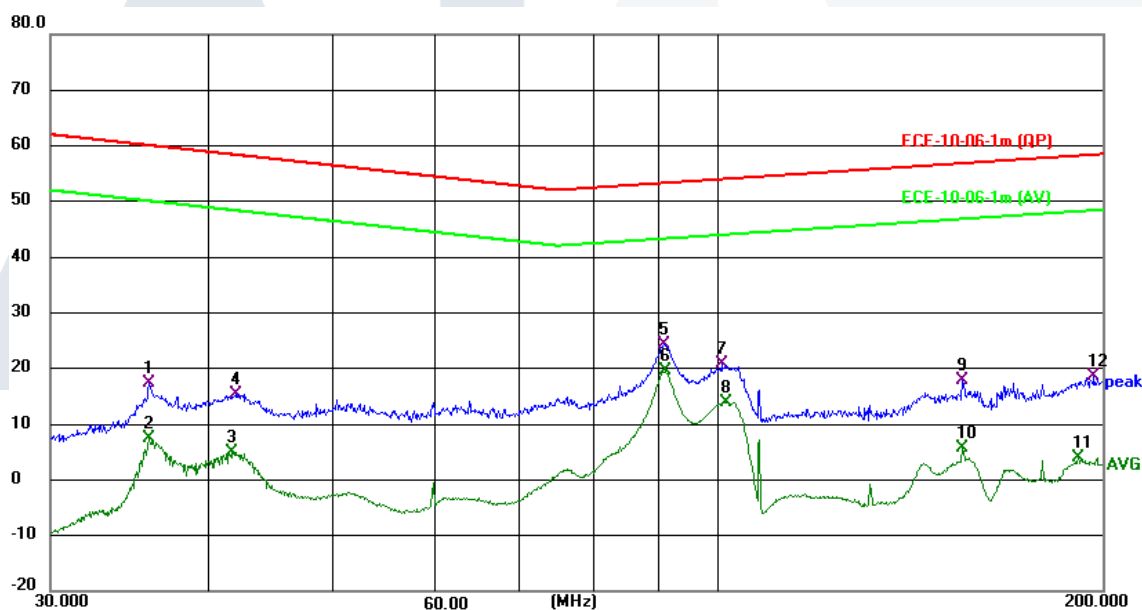
Radiated broadband electromagnetic Emissions : as shown in table 1

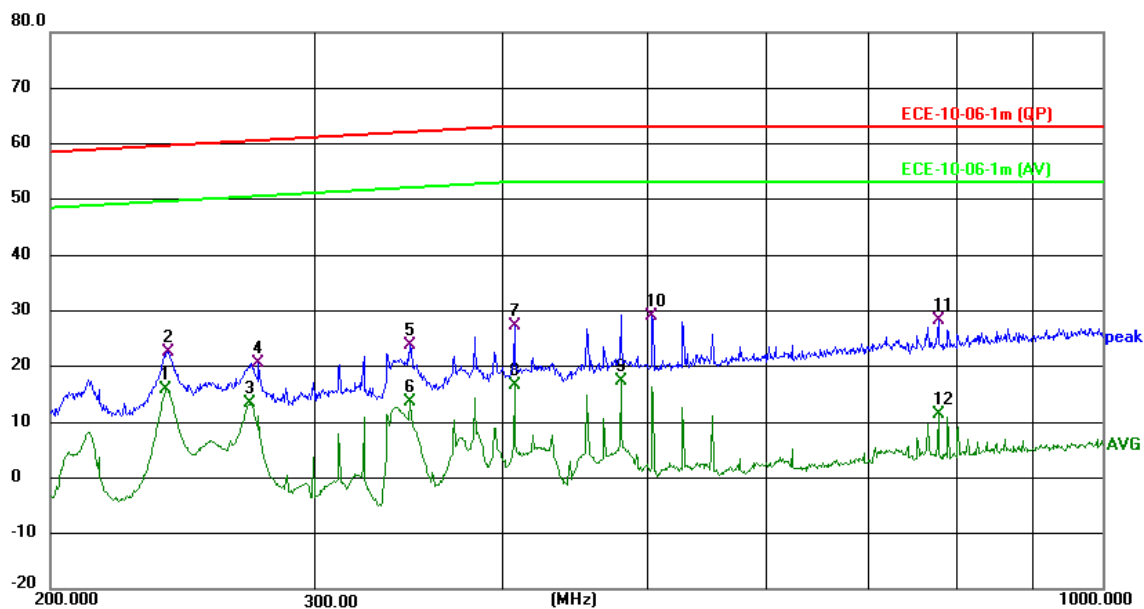
Radiated narrow band electromagnetic Emissions : as shown in table 2

Antenna position : horizontal and vertical

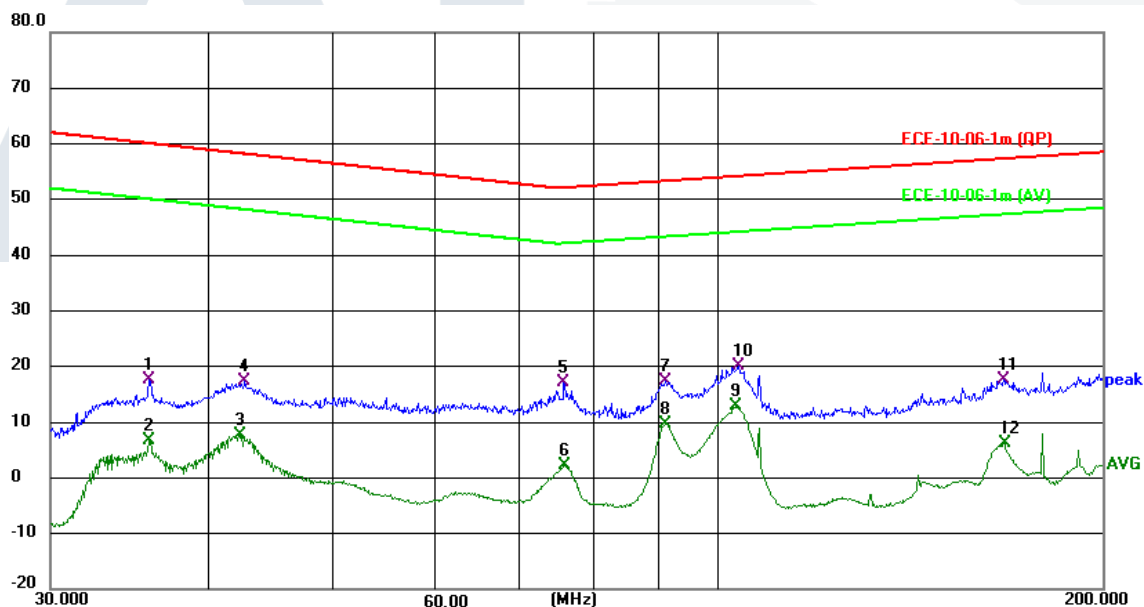
Rated voltage : DC 24V

Horizontal Polarity Test Result Diagram (Broadband and Narrow band)





Vertical Polarity Test Result Diagram (Broadband and Narrow band)



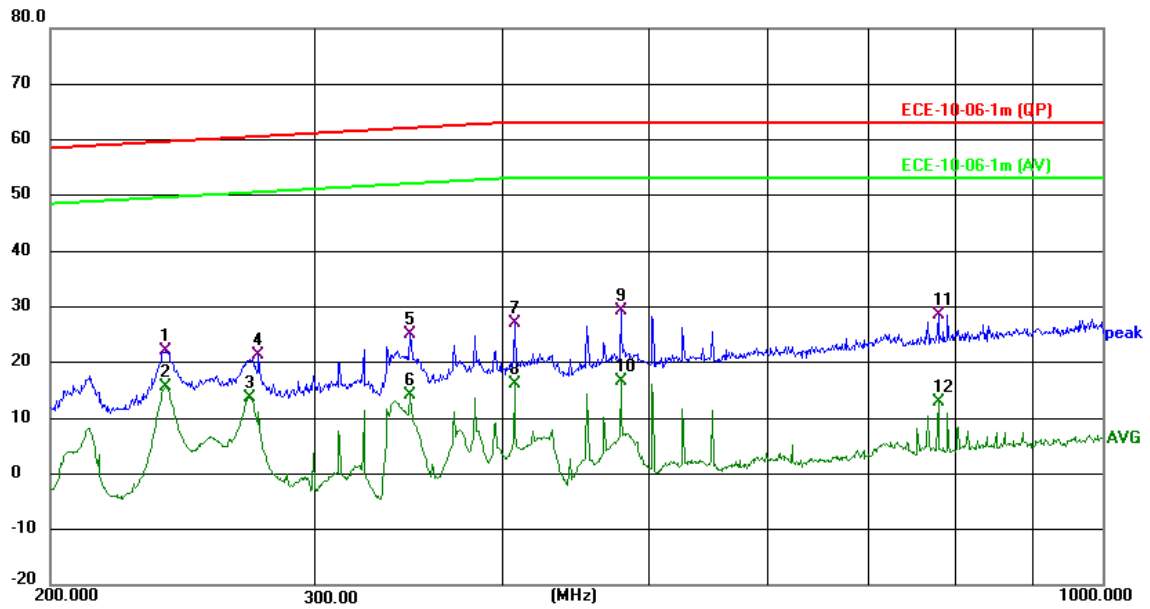
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Manufacturer: UAB TELTONIKA TELEMATICS



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Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Test data

Appendix 2

Maximum broadband QP value (Horizontal Polarity):

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
239.54	22.59	100	H	37.04	59.63
275.36	20.65	100	H	39.90	60.55
347.24	23.84	100	H	38.23	62.07
407.03	27.39	100	H	35.61	63.00
502.88	28.98	100	H	34.02	63.00
778.34	28.26	100	H	34.74	63.00

Maximum broadband QP value (Vertical Polarity):

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
238.49	22.08	100	V	37.52	59.60
275.39	21.28	100	V	39.27	60.55
347.21	24.96	100	V	37.11	62.07
407.12	27.05	100	V	35.95	63.00
479.03	29.34	100	V	33.66	63.00
778.25	28.61	100	V	34.39	63.00

Maximum narrowband AV value (Horizontal Polarity):

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
239.06	15.92	100	H	33.70	49.62
271.76	13.32	100	H	37.14	50.46
347.24	13.50	100	H	38.57	52.07
407.03	16.49	100	H	36.51	53.00
478.94	17.39	100	H	35.61	53.00
778.34	11.51	100	H	41.49	53.00

Maximum narrowband AV value (Vertical Polarity):

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Margin (dB)	Limit (dBuV/m)
239.00	15.65	100	V	33.97	49.62
271.34	13.74	100	V	36.71	50.45
347.21	14.12	100	V	37.95	52.07
407.12	16.11	100	V	36.89	53.00
479.03	16.61	100	V	36.39	53.00
778.25	12.76	100	V	40.24	53.00

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Test data

Appendix 2

2. Immunity of ESAs to electromagnetic radiation

Test method : Measured by the method described in Annex 9 of ECE Regulation NO.10.

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20-400	60mA	AM	150mm	/	Pass
400-1000	30V/m	PM1	1m	Vertical	Pass
1000-2000	30V/m	PM1	1m	Vertical	Pass

Remark:

* no degradation of performance of 'immunity-related functions.

3. Immunity of ESAs to transient disturbances

Test method : Measured by the method described in Annex 10 of ECE Regulation NO.10.

Measurement result:

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status*	Status of function true value (mode 1)	Result
1	-450	5000 pulses	0.5s	C	C	Pass
2a	+37	5000 pulses	0.2s	B	A	Pass
2b	+20	10 pulses	0.5s	C	C	Pass
3a	-150	1h	90ms	A	A	Pass
3b	+150	1h	90ms	A	A	Pass
4	-12	1 pulse	N/A	C	A	Pass

Remark:

* Class A: all functions of a device/system perform as designed during and after exposure to disturbance.

Class B: all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.

Class C: one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.

Class D: one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.

Class E: one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

Inspection Report No.: ATS-SM-IR-10-12784

Of: 15/05/2024



Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Test data

Appendix 2

2. Emission of transient conducted disturbances generated by ESAs

Test method Measured by the method described in Annex 10 of ECE Regulation NO.10.

Polarity of pulse amplitude	Maximum allowed value for vehicles with 24V systems	Measured Pulse amplitude True Value(Fast)	Measured Pulse amplitude True Value(Slow)
Positive	+150V	27.60V	30.00V
Negative	-450V	-0.72V	-1.92V



Inspection Report No.:



Of: 15/05/2024

Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Appendix 3

Sample photos

Applicable / Not Applicable

Appendix 3

12V

Radiated electromagnetic emissions



Radiated electromagnetic emissions



Immunity of ESAs to transient disturbances



Emission of transient conducted disturbances

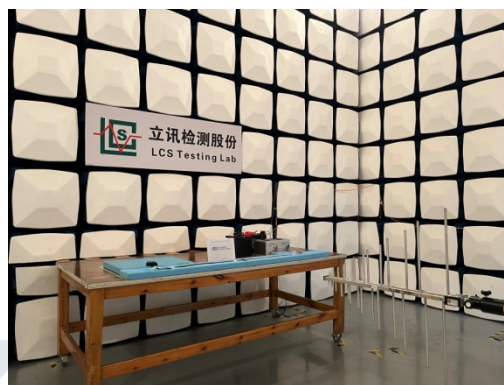


24V

Radiated electromagnetic emissions



Radiated electromagnetic emissions



Immunity of ESAs to transient disturbances



Emission of transient conducted disturbances



Inspection Report No.:



Of: 15/05/2024

Type: FMB209-TAAB0

Manufacturer: UAB TELTONIKA TELEMATICS

Appendix 4

List of main equipment

Applicable / Not Applicable

Appendix 4

No.	Name	Type	Serial No.	Valid Until
1	EMI Test Receiver#5	ESR7	101107	2025-03-07
2	LISN #1	NNBM8124	458	2025-03-07
3	LISN #2	NNBM8124	459	2025-03-07
4	DC Power Supply #4	HCS-3604	UG261801338	2024-05-20
5	Biconical Antenna	VHBB 9124	01015	2024-05-26
6	Log Periodic Antenna	VULP 9118	873	2024-05-26
7	Voltage change simulator	VDS 200N	P1305111139	2025-03-07
8	Automobile Transient Simulators	UCS 200N	P1251107169	2025-03-07
9	Transient Emissions Test System	VTE 743T1	EC9801605	2025-03-07
10	Mechanical Switch	MS-743T1	/	2025-03-07
11	Electronic Switch	MS-743T1	/	2025-03-07
12	Signal Generator	N5171B	MY59101218	2024-05-20
13	Function Generator#1	33210A	MY57002729	2024-05-20
14	Power Meter	E4417A	MY45100359	2025-03-07
15	Power Probe#1	E9323A	US40412014	2024-05-20
16	Power Probe#2	E9323A	MY44421539	2024-05-20
17	Power Amplifier#16	AR 250W1000AM3	0334191	2024-05-20
18	Log Antenna	STLP 9128ES	3095	N/A
19	Power Amplifier#2	CBA 3G-500B	T2452-0719	2024-05-20
20	Horn Antenna	BBHA 9120J	191	N/A
21	Current Injection Probe	F-130A-1	112188	2025-03-07
22	Continuous Wave Simulator	CWS500N2	V1106108792	2024-05-20

All the instruments have been calibrated and are in the period of validity.

**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

Date: 2024-05-13

Pages 1 of 23

**APPLICATION FOR APPROVAL PURSUANT
TO THE ECE REGULATION No. 10.06**

RELATING TO ELECTROMAGNETIC COMPATIBILITY OF AN ESA

Company Name: UAB TELTONIKA TELEMATICS

Type: FMB209-TAAB0

Date: 2024-05-13

Signature of a responsible person:

Julius Tervydis



**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

Date: 2024-05-13

Pages 2 of 23

Confirmation

We declare hereby that the specimen ESA submitted for this approval test has been manufactured

and assembled on conditions of ordinary mass production and that they are compatible with enclosed documentation.

Date: 2024-05-13

Signature of a responsible person:



Julius Tervydis

UAB TELTONIKA TELEMATICS	Type: FMB209-TAAB0
	Information Document No.: FMB209-TAAB0-R10-00
	Date: 2024-05-13
	Pages 3 of 23

- 1 Make (trade name of manufacturer): N/A
- 2 Type: FMB209-TAAB0
- 2.1 General commercial description(s): Fleet Management System
- 2.2 Variants (if applicable) : N/A
3. Name and address of manufacturer: UAB TELTONIKA TELEMATICS
Saltoniškių g. 9B-1, LT-08105, Vilnius, Lithuania
- 3.1 Name and address of manufacturer's authorized representative: N/A
4. Production plant(s) address(es): TELTONIKA EMS, UAB
Ditvos g. 6, LT-02121, Vilnius, Lithuania
5. Position of the approval mark: Engraved on the terminal housing
6. Electrical system rated voltage: 12/24V DC
7. This ESA shall be approved as a: Component

No.	APPENDIX	Page
1	Drawing of Location of Approval Mark	4
2	Drawing of assembly	5
3	Circuit Diagram	6
4	PCB Layout	12
5	List of main component	18
6.	EUT Photos	23

**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

Date: 2024-05-13

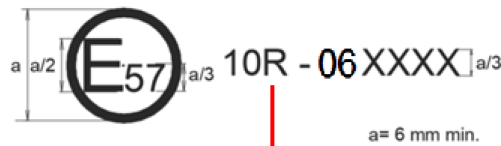
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APPENDIX


No.1

Drawing of Location of Approval Mark

Approval Mark



- Red
+10...30 V DC
- Black
GND
- Yellow
IGNITION (DIN 1)
- White/Green
DIN 2
- White
DOUT 1
- Grey
AIN 1/DIN 3
- White/Orange
RS232-TX
- Violet
RS232-RX
- Green
AIN 2/DIN 4
- Blue
DOUT 2








FMB209

GSM/GNSS TERMINAL


Power supply: 10 - 30 V = 1.5 A Max
Internal Li-ion battery 3.8 V, 800 mAh

Made in Lithuania
Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania
www.teltonika-gps.com





10R-06XXXX



S/N
9999999999



IMEI
999999999999999

↑↑ **MOUNT THIS SIDE UP**

Status
LED

Navigate
LED

UAB TELTONIKA TELEMATICS

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

Date: 2024-05-13

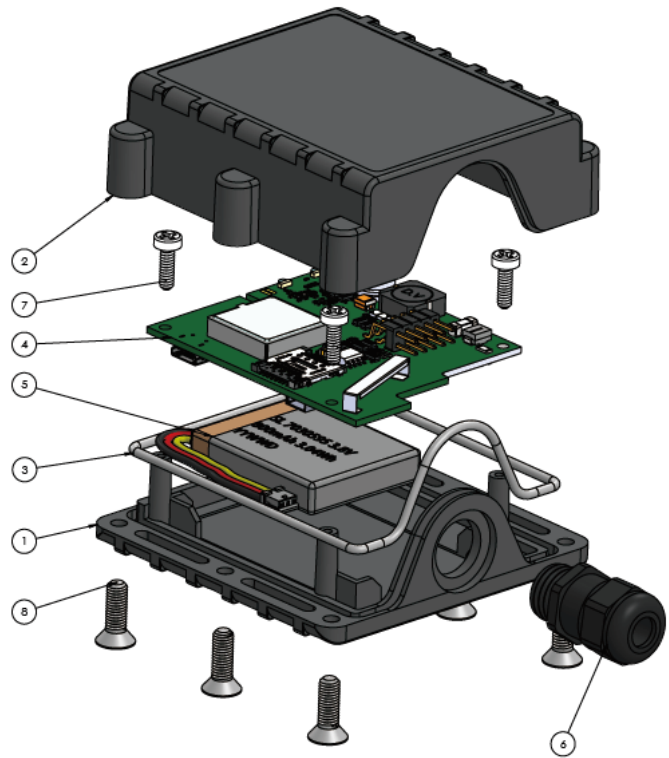
Pages 5 of 23

APPENDIX

No.2

Drawing of assembly

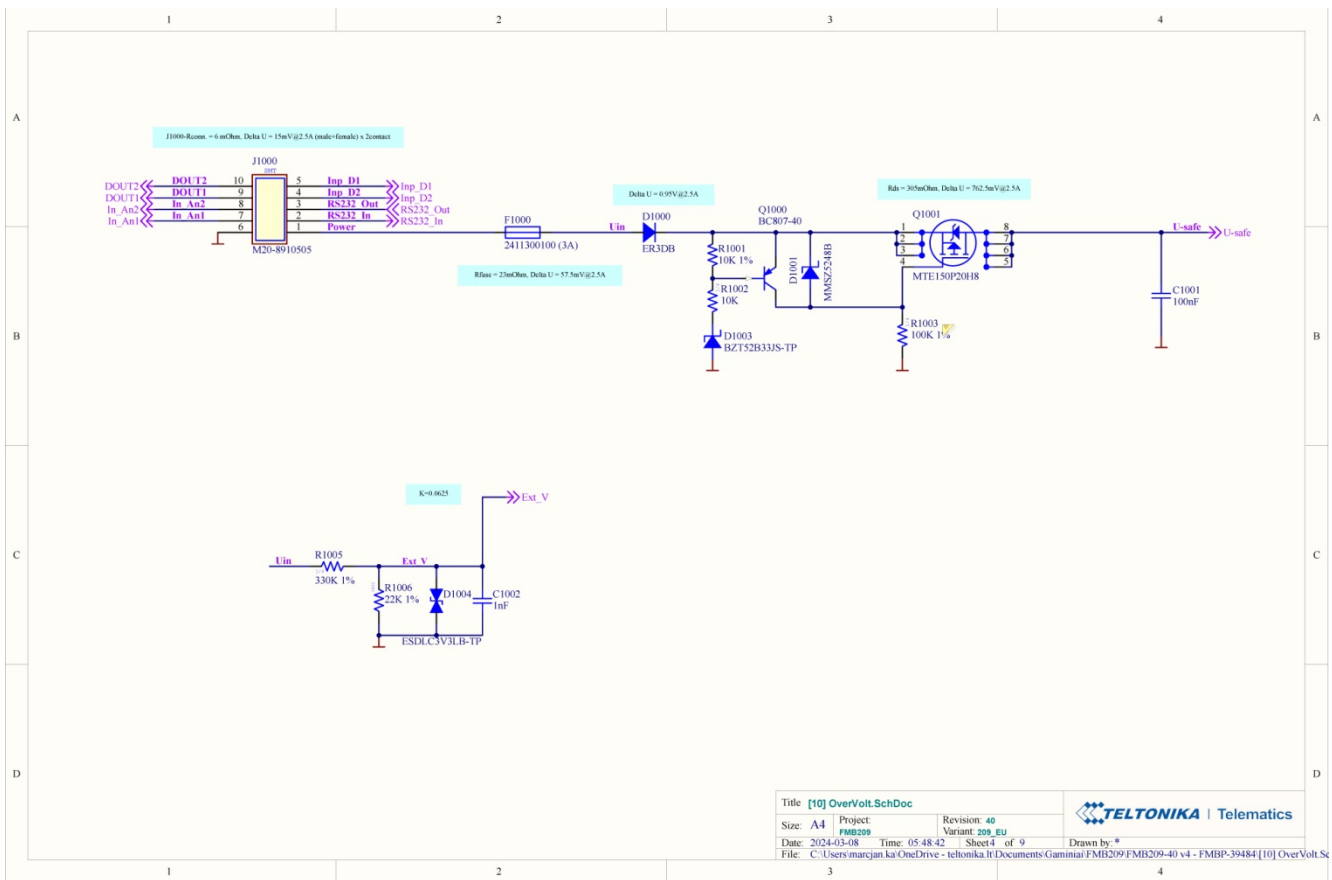
BOM			
ITEM NO.	PART NUMBER	DESCRIPTION/MATERIAL	QTY.
1	FM1200_Cover_V3_D_130424	Bottom part of enclosure; PC, translucent, black	1
2	FM1200_Case_V3_D_121123	Top part of enclosure; PC Macrolon 2807, translucent, black	1
3	FM1200_Seal_V3_D_130324	Casing seal, Silicone Rubber, Black	1
4	FMB209-40	Main PCB	1
5	703035HV-800mAh 3.8V PONA STK_20190318	Li-Po battery 3.7V 800 mAh, manufacturer - Foshan Zhaonan Battery	1
6	1.218.1201.50 / 1.262.1201.50 / 1.321.1200.57	Cable Gland IP68 Nylon 66 M12 panel mount, manufacturer - Shangha Richeng Electronics Co., Ltd.	1
7	DIN 7981 2,2x13	Screw, Steel 10.9, Zinc plated	4
8	DIN 7982 ST,9x13	Screw, Steel, Zinc plated	6



APPENDIX

No.3

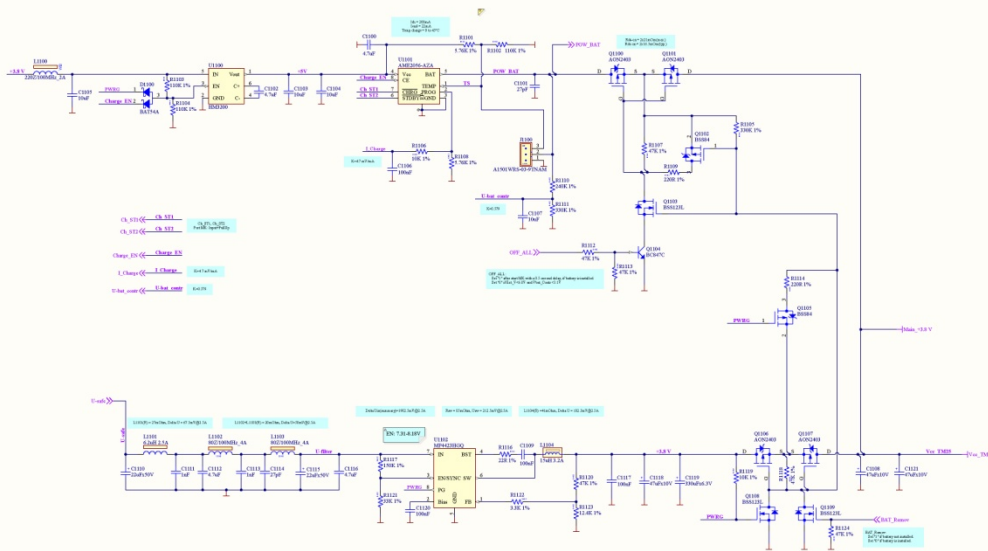
Circuit Diagram



APPENDIX

No.3

Circuit Diagram



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Date: 2024-05-13
Sheet: 3 of 3
UAB TELTONIKA Telematics

UAB TELTONIKA TELEMATICS

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

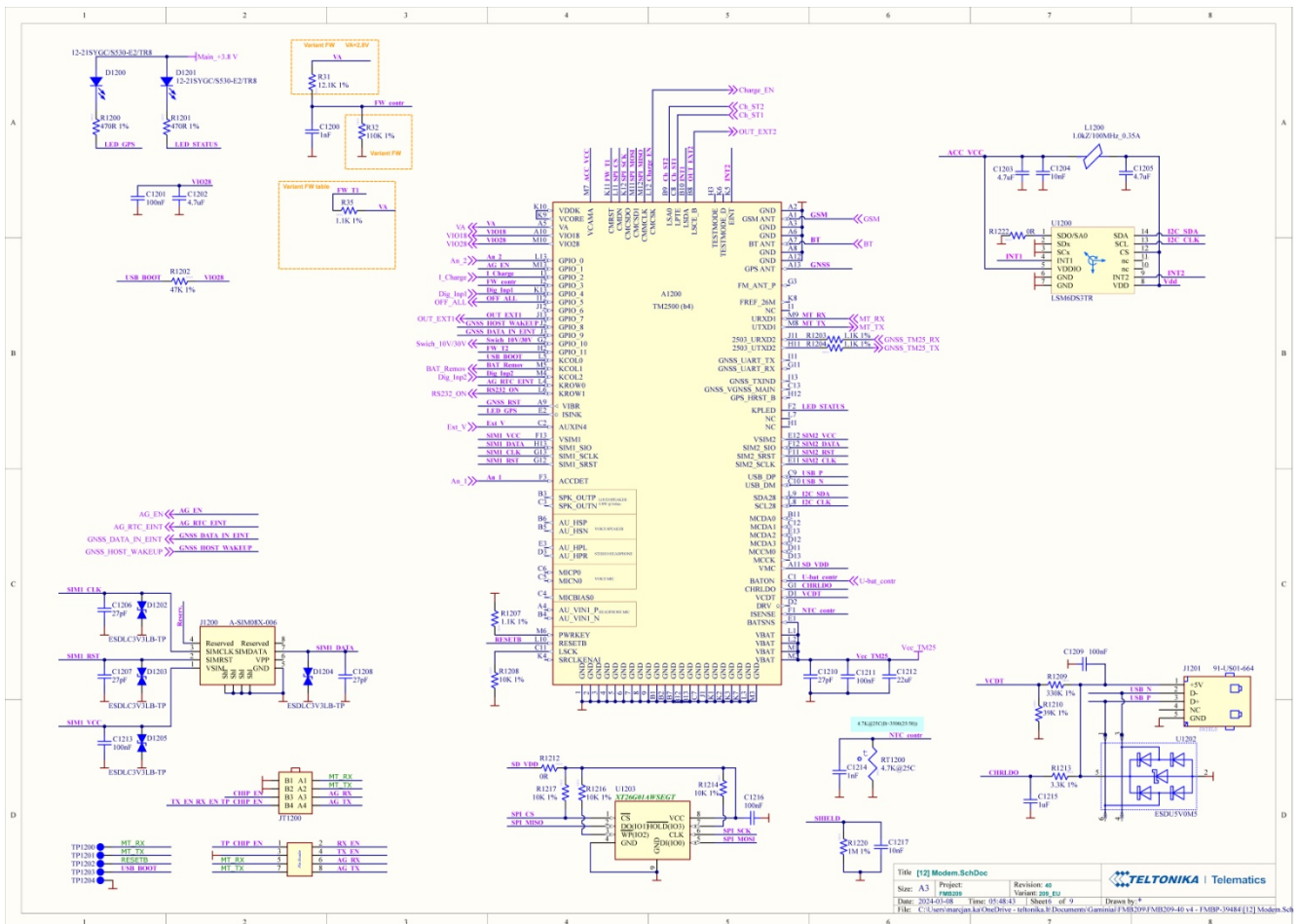
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APPENDIX

No.3

Circuit Diagram



UAB TELTONIKA TELEMATICS

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

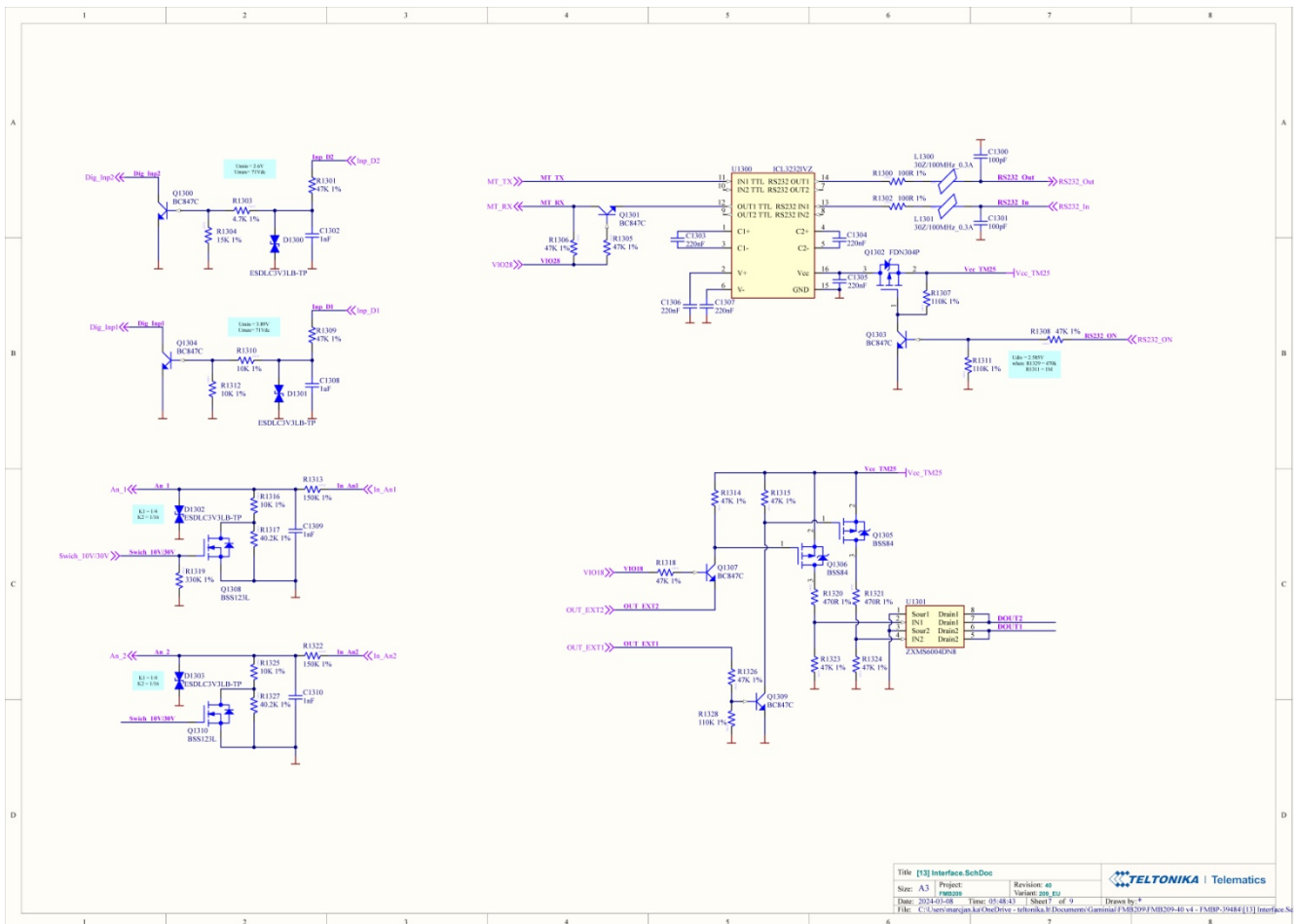
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APPENDIX

No.3

Circuit Diagram



UAB TELTONIKA TELEMATICS

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

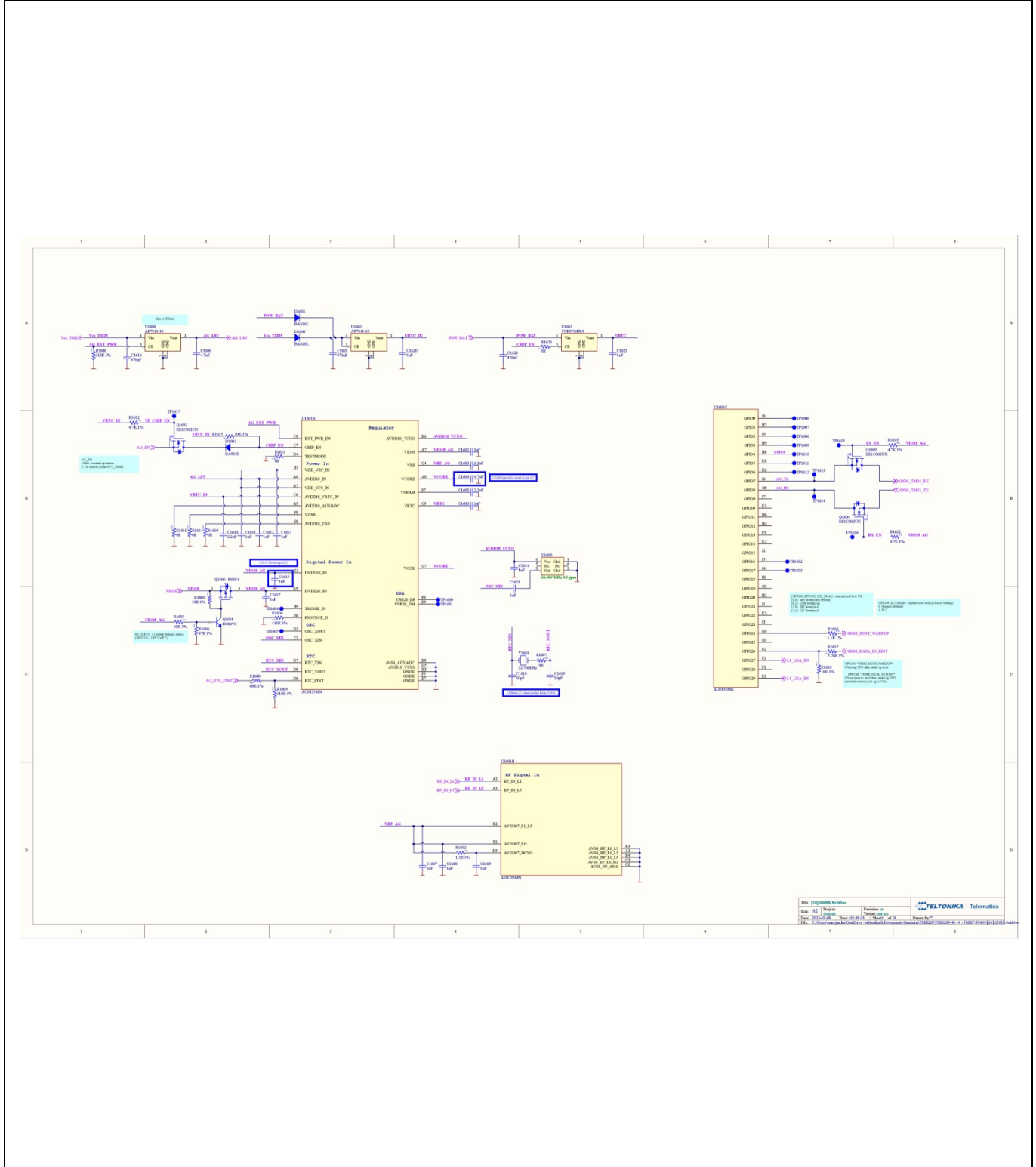
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APPENDIX

No.3

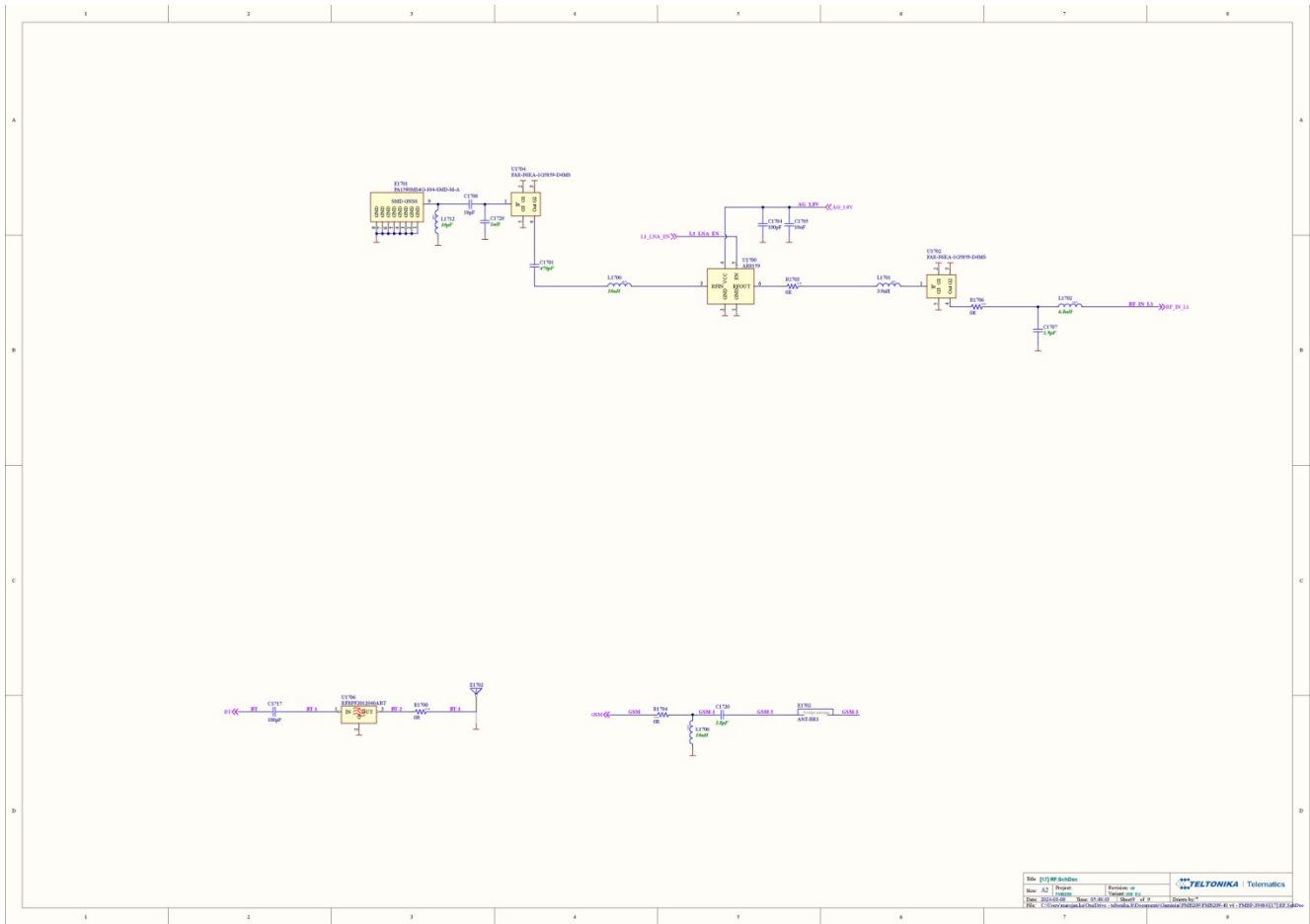
Circuit Diagram



APPENDIX

No.3

Circuit Diagram



**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

Information Document No.: FMB209-TAAB0-R10-00

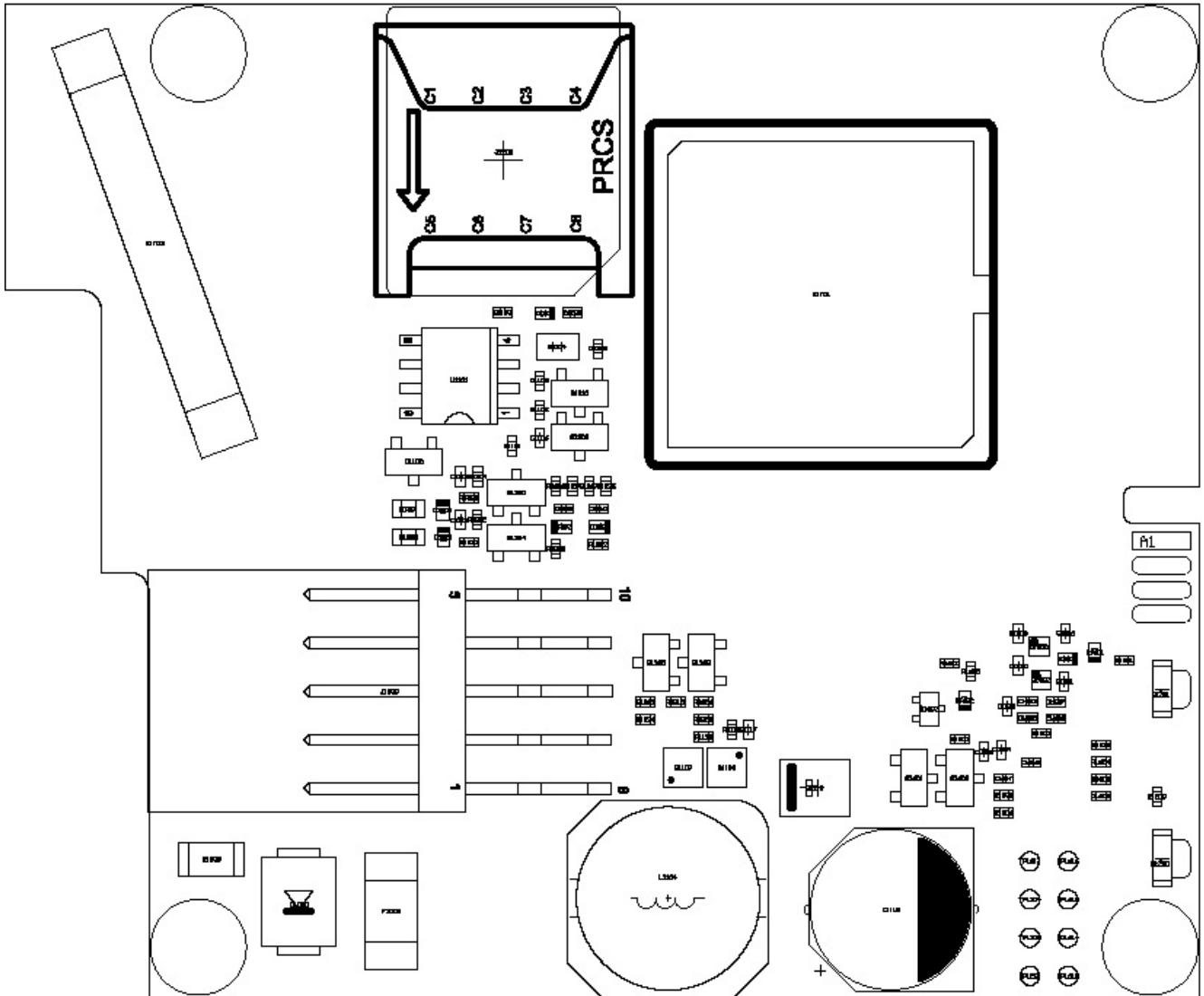
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APPENDIX

No.4

PCB Layout

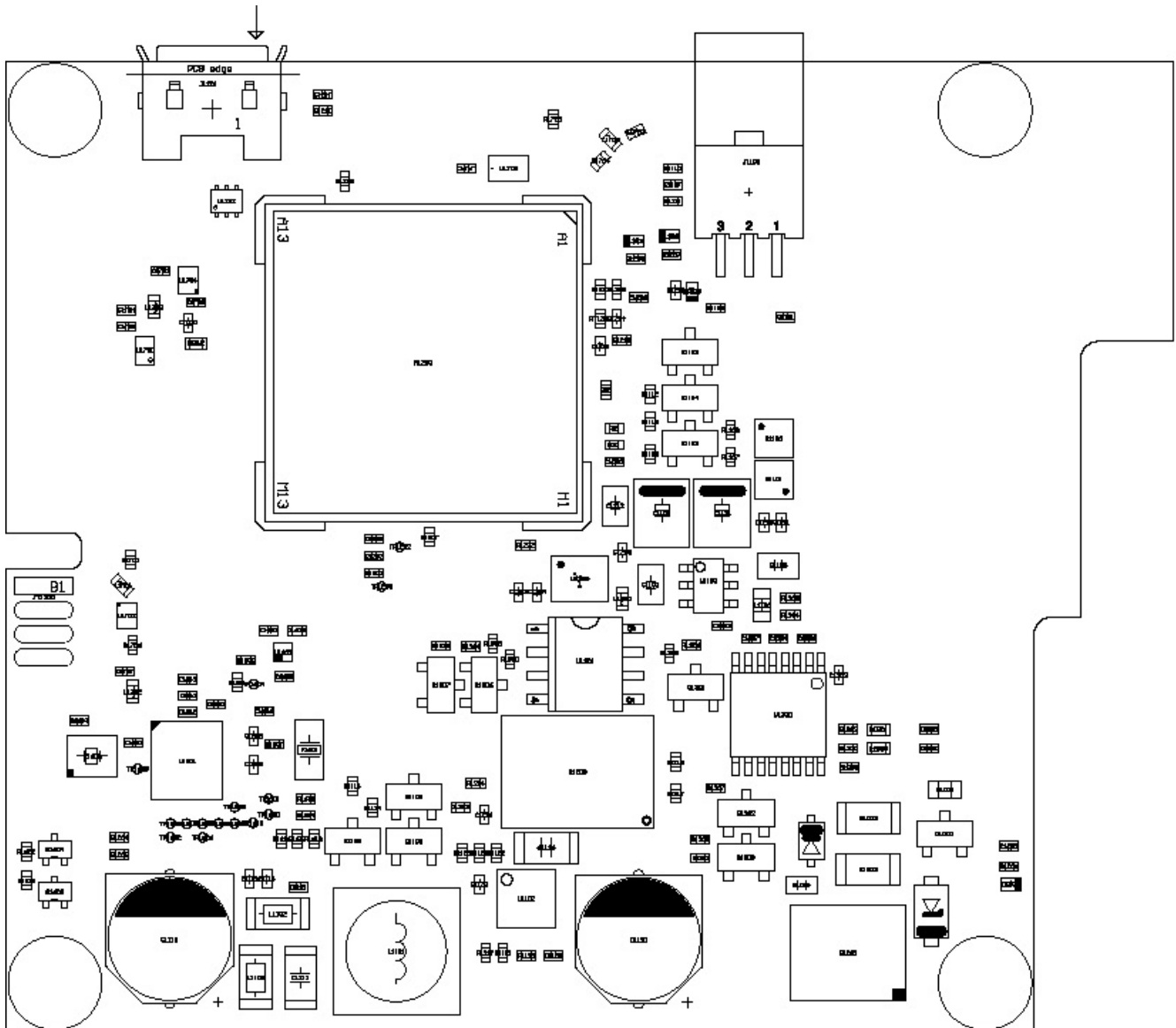


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2024-03-08
209_EU**

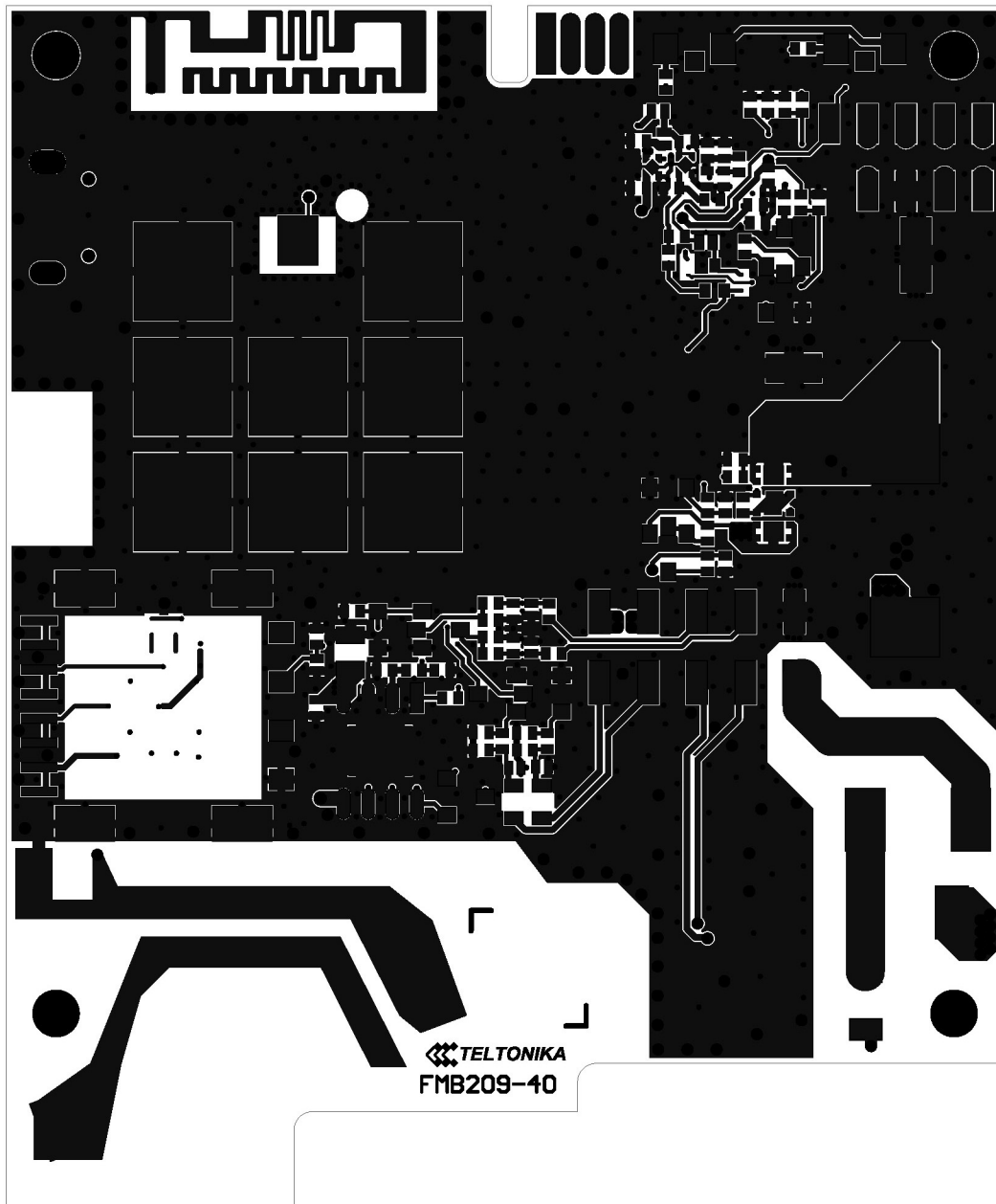
APPENDIX

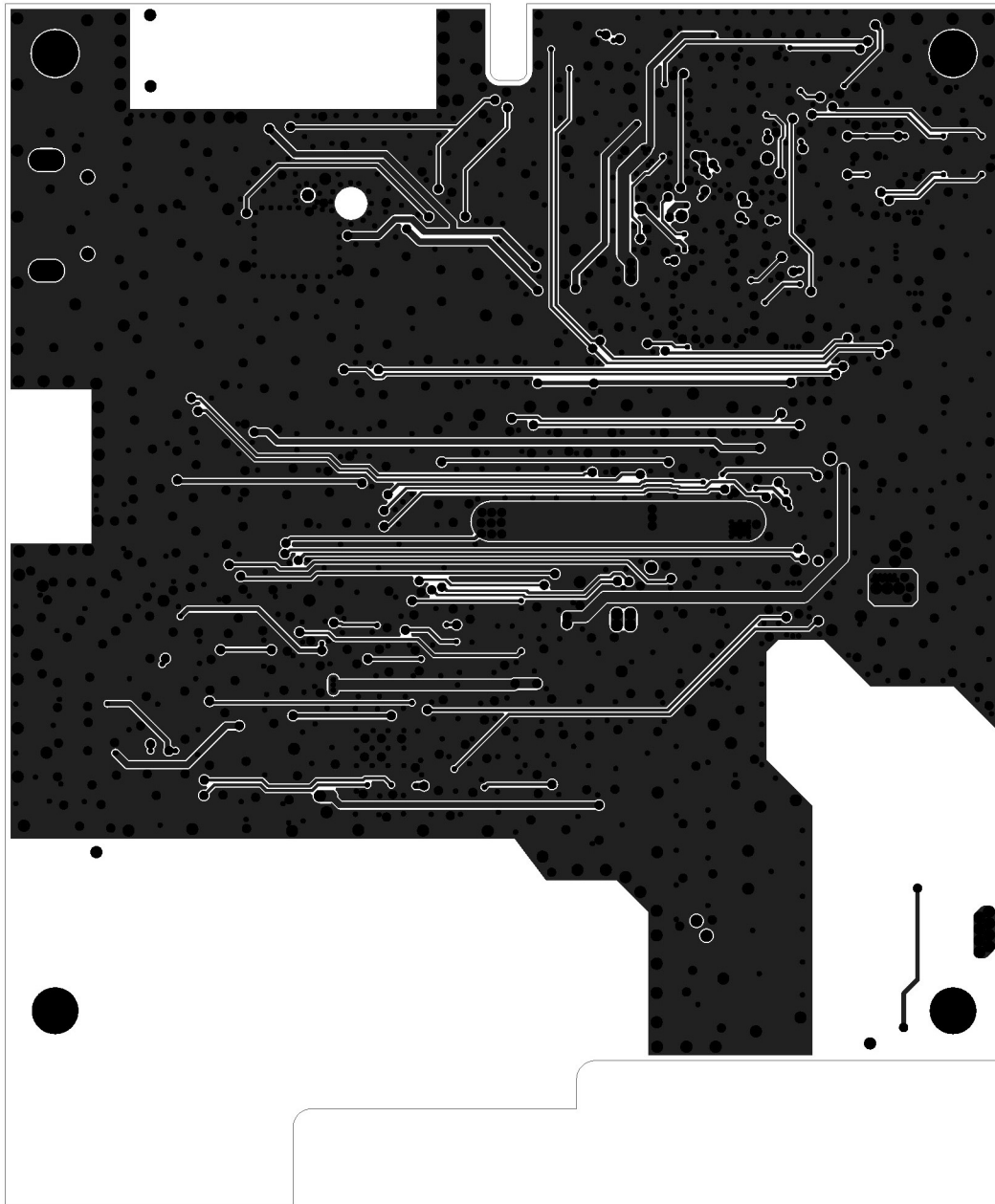
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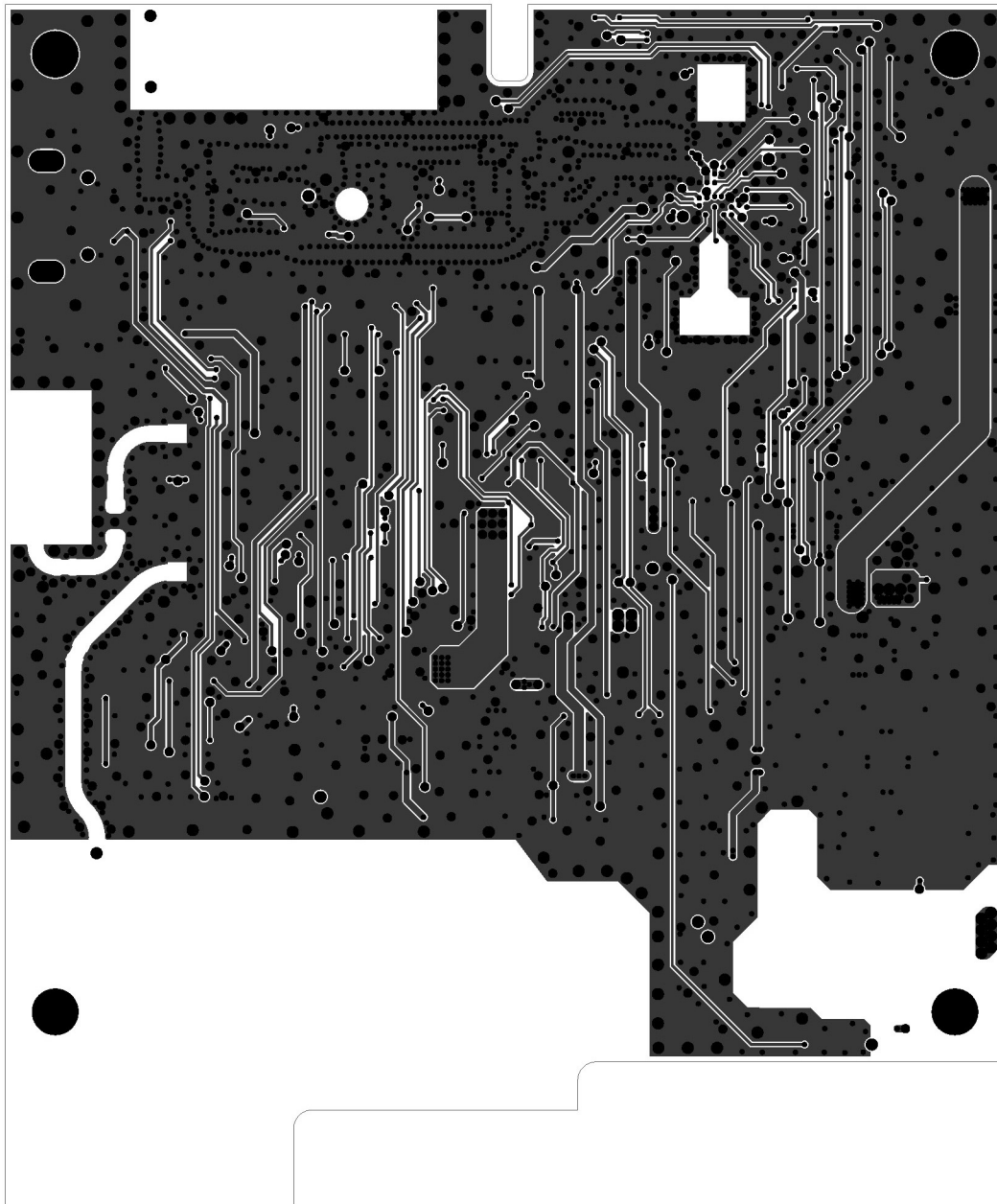
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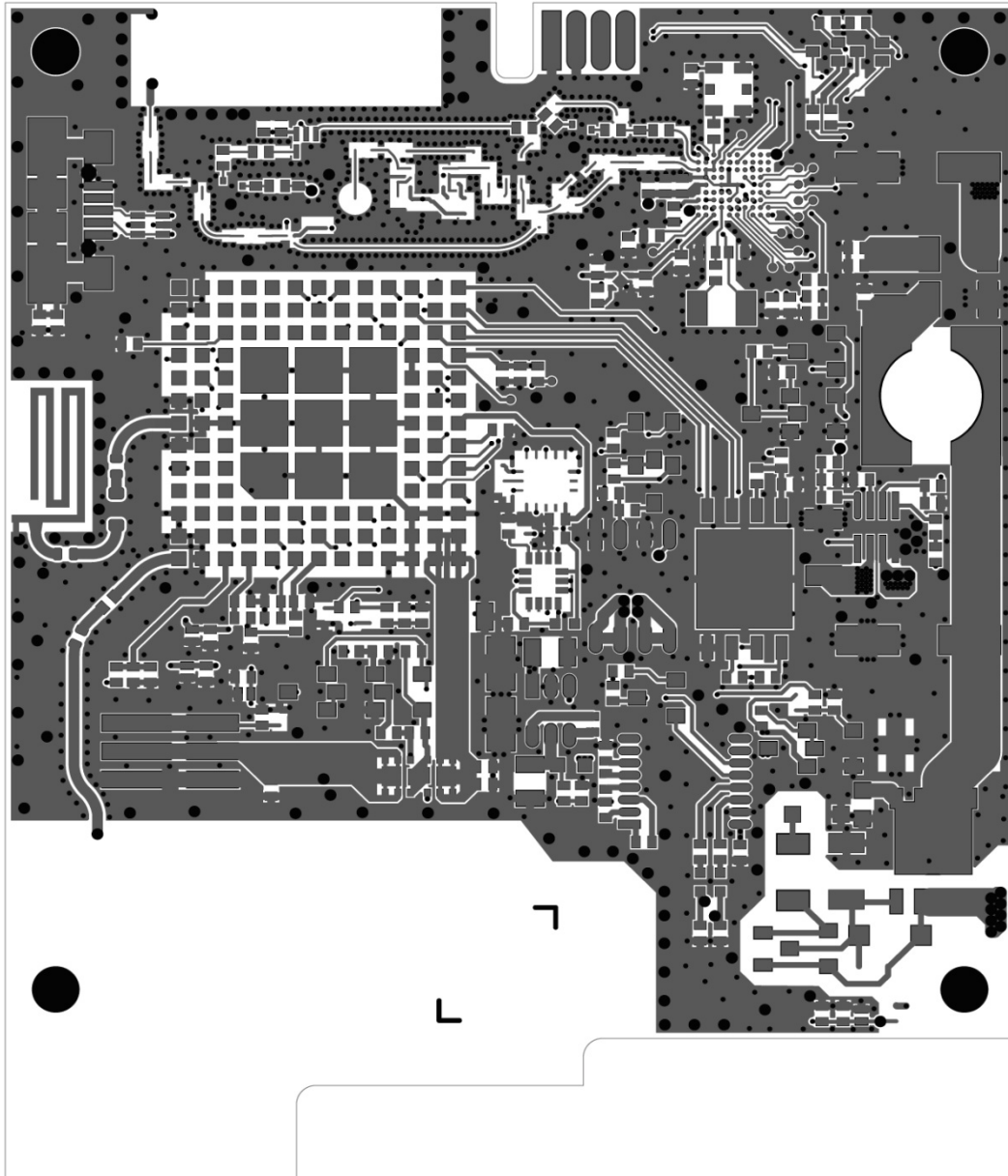


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2024-03-08
209_EU









**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

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List of main component

Bill of material

Items	Description	Value	Position	Quantity	units
1	100nF	100nF 50V 10% X7R 0603	C1001	1	PCS
2	1nF	1nF 50V 10% X7R 0402	C1002, C1111, C1113, C1200, C1214, C1302, C1309, C1310, C1621	9	PCS
3	4.7uF	4.7uF 6.3V 20% X5R 0402	C1100, C1102, C1202, C1203, C1205, C1600, C1604	7	PCS
4	27pF	27pF 50V 5% COG 0402	C1101, C1114, C1206, C1207, C1208, C1210	6	PCS
5	10uF	10uF 16V 10% X5R 0805	C1103, C1104, C1105	3	PCS
6	100nF	100nF 16V 10% X7R 0402	C1106, C1109, C1117, C1120, C1201, C1209, C1211, C1213, C1216	9	PCS
7	10nF	10nF 50V 10% X7R 0402	C1107, C1204, C1217, C1705	4	PCS
8	47uF _X 10V	47uF _X 10V 10% SMD TANTAL CAP B- case ESR=1.0 -55+125	C1108, C1118, C1121	3	PCS
9	22uF	22uF _X 50V SMD low ESR Al elect CAP 6.3x5.8 Ir=165mA Z=0.88 -55+105	C1110, C1115	2	PCS
10	4.7uF	4.7uF 50V 10% X7R 1206	C1112, C1116	2	PCS
11	330uF	330uF _X 6.3V SMD low ESR Al elect CAP 8x6.5 Ir=500mA ESR=0.18 -55+105	C1119	1	PCS
12	22uF	22uF 10V 20% X5R 0805	C1212	1	PCS
13	1uF	1uF 10V 10% X5R 0402	C1215, C1308, C1602, C1606, C1607, C1608, C1609, C1611, C1612, C1613, C1614, C1615, C1617, C1620, C1623	15	PCS
14	100pF	100pF 50V 5% COG 0402	C1300, C1301, C1704, C1717	4	PCS
15	220nF	220nF 16V 10% X5R 0402	C1303, C1304, C1305, C1306, C1307	5	PCS
16	470nF	470nF 10V 10% X5R 0402	C1601, C1616, C1622	3	PCS
17	2.2uF	2.2uF 6.3V 20% X5R 0402	C1603, C1605, C1610	3	PCS
18	10pF	10pF 50V 5% COG 0402	C1618, C1619, L1712	3	PCS
19	18pF	18pF 50V 5% COG 0402	C1700	1	PCS
20	470pF	470pF 50V 10% X7R 0402	C1701	1	PCS

**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

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21	3.9pF	3.9pF 50V ±0.25pF COG 0402	C1707	1	PCS
22	1.8pF	1.8pF 50V ±0.1pF COG 0402	C1720	1	PCS
23	1nH	1nH ±0.3nH Unshielded Inductor 1A 0.1R 7Q@100MHz SFR=10GHz 0402 - 55+125	C1728	1	PCS
24	ER3DB	Fast Recovery Diode 200V 3A 0.95V@3A 35ns DO-214AA	D1000	1	PCS
25	MMSZ5248B	Diode Zener 18V 5% 0.5W SOD123	D1001	1	PCS
26	BZT52B33JS-TP	Diode Zener 33Vnom 2% 0.2W SOD- 323	D1003	1	PCS
27	ESDLC3V3LB-TP	TVS Diode Bidirectional Urwm=3.3V 2.6pF@1MHz 2-UDFN (1x0.6mm)	D1004, D1202, D1203, D1204, D1205, D1300, D1301, D1302, D1303	9	PCS
28	BAT54A	Diode Schotky Pair Common Anode 30V 0.2A 0.8V@0.1A SOT23	D1100	1	PCS
29	12-21SYGC/S530- E2/TR8	Y/Green SMD RA SIDE LED 573nm 2V@20mA 26mcd 3x2x1mm	D1200, D1201	2	PCS
30	BAS16L	Fast switching Diode 100V 0.215A 1.25V@0.15A 4ns SOD882	D1600, D1601, D1602	3	PCS
31	PA1590MS4G-104- SMD-M-A	SMD GPS-GLONASS patch antenna for FMB209 18x18x4mm -40+85	E1701	1	PCS
32	ANT-BR1	GSM Metal Bridge Antenna 3.1x22.7x4mm	E1702	1	PCS
33	2411300100 (3A)	Fuse 3A 125AC 125DC 6.1x2.6x2.6mm	F1000	1	PCS
34	26.000 MHz 0.5 ppm	26.000MHz TCXO 0.5ppm 1.8V@1.5mA 2.5x2.0x0.8 -40+85	Y1600	1	PCS
35	32.768KHz	32.768 KHz Quartz Crystal SMD ±20ppm CL=7pF 3.2X1.5mm -40+85	Y1601	1	PCS
36	M20-8910505	2.54mm pitch 2x5-pin Header Right Angle SMD 3.0A 250V Gold Flash - 40+105	J1000	1	PCS
37	A1501WRS-03-9TNAM	1.5mm pitch 3-pin Wire-to-Board Right Angle Wafer SMD AWG26-32 Tin 3A 350V 20mOhm -40+105	J1100	1	PCS
38	A-SIM08X-006	micro SIM holder 13.7x14.15x1.5mm without positioning pins with shell - 40+85	J1200	1	PCS
39	91-US01-664	Micro USB B Receptacle, galas lygus	J1201	1	PCS
40	220Z/100MHz_2A	Ferrite bead 220ohm@100MHz 2A 0.09R 0603 -55+125	L1100	1	PCS
41	6.2uH 2.5A	6.2uH 30% Shielded Power Inductor Ir=2.5A Is=2.6A 0.027R 6.8x6.8x3.8mm -40+125	L1101	1	PCS

**UAB TELTONIKA
TELEMATICS**

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42	80Z/100MHz_4A	Ferrite bead 80ohm@100MHz 4A 0.01R 1206 -40+125	L1102, L1103	2	PCS
43	15uH 3.2A	15uH 20% Shielded Power Inductor Isat=3.2A 0.06R 10.5x10.6x4mm - 40+85	L1104	1	PCS
44	1.0kZ/100MHz_0.35A	Ferrite bead 1.0kohm@100MHz 0.35A 0.49R 0402 -55+125	L1200	1	PCS
45	30Z/100MHz_0.3A	Ferrite bead 30ohm@100MHz 0.3A 0.25R 0402 -55+125	L1300, L1301	2	PCS
46	10nH	10nH 5% Unshielded w/w Inductor 500mA 0.17R 25Q@250MHz SRF=5.5GHz 0402 -55+125	L1700	1	PCS
47	3.9nH	3.9nH ±0.1nH Unshielded Inductor 170mA 0.5R 13Q@500MHz SRF=6GHz 0402 -40+85	L1701	1	PCS
48	6.8nH	6.8nH ±0.1nH Unshielded Inductor 130mA 0.9R 13Q@500MHz SRF=6GHz 0402 -40+85	L1702	1	PCS
49	10nH	10nH 5% Unshielded Inductor 200mA 1.35R 13Q@500MHz SRF=4.5GHz 0402 -40+125	L1706	1	PCS
50	BC807-40	PNP Small Signal Transistor 45Vceo 0.5A hFE=250 SOT23-3	Q1000	1	PCS
51	MTE150P20H8	P-chan. Power MOSFET 200Vds 20Vgs 15A Rds=0.174ohm@10V EDFN5x6	Q1001	1	PCS
52	AON2403	P-chan. Power MOSFET 12Vds 8Vgs 8A Rds=0.021ohm@4.5V 6-DFN-EP	Q1100, Q1101, Q1106, Q1107	4	PCS
53	BSS84	P-chan. Small Signal MOSFET 50Vds 20Vgs 0.13A Rds=10ohm@5V SOT23-3	Q1102, Q1105, Q1305, Q1306, Q1600	5	PCS
54	BSS123L	N-chan. Small Signal MOSFET 100Vds 20Vgs Vgs(th)=2.6V 0.17A Rds=6ohm@10V SOT23	Q1103, Q1108, Q1109, Q1308, Q1310	5	PCS
55	BC847C	NPN Small Signal Transistor 45Vceo 0.1A hFE=420 SOT23-3	Q1104, Q1300, Q1301, Q1303, Q1304, Q1307, Q1309, Q1601	8	PCS
56	FDN304P	P-chan. Power MOSFET 20Vds 8Vgs 2.4A Rds=0.05ohm@4.5V SSOT-3	Q1302	1	PCS
57	RE1C002UN	N-chan. Small Signal MOSFET 20Vds 8Vgs 0.2A Rds=1.2ohm@2.5V SC-89-3	Q1602, Q1603, Q1604	3	PCS
58	12.1K 1%	12.1K 1% 0402 1/16W 100ppm	R31	1	PCS
59	110K 1%	110K 1% 0402 1/16W 100ppm	R32, R1102, R1103, R1104, R1307, R1311, R1328, R1600, R1604, R1609	10	PCS

**UAB TELTONIKA
TELEMATICS**

Type: FMB209-TAAB0

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60	1.1K 1%	1.1K 1% 0402 1/16W 100ppm	R35, R1203, R1204, R1207, R1602, R1616	6	PCS
61	10K 1%	10K 1% 0603 1/10W 100ppm	R1001	1	PCS
62	10K	10K 5% 1206 1/4W 100ppm	R1002	1	PCS
63	100K	100K 1% 1206 1/4W 100ppm AUTOMOTIVE	R1003	1	PCS
64	330K 1%	330K 1% 1206 1/4W 100ppm	R1005	1	PCS
65	22K 1%	22K 1% 0402 1/16W 100ppm	R1006	1	PCS
66	5.76K 1%	5.76K 1% 0402 1/16W 100ppm	R1101, R1108, R1617	3	PCS
67	330K 1%	330K 1% 0402 1/16W 100ppm	R1105, R1111, R1209, R1319	4	PCS
68	10K 1%	10K 1% 0402 1/16W 100ppm	R1106, R1119, R1208, R1214, R1216, R1217, R1310, R1312, R1316, R1325, R1603, R1605, R1615, R1618	14	PCS
69	47K 1%	47K 1% 0402 1/16W 100ppm	R1107, R1112, R1113, R1118, R1120, R1124, R1202, R1305, R1306, R1308, R1314, R1315, R1318, R1323, R1324, R1326, R1606	17	PCS
70	220R 1%	220R 1% 0402 1/16W 100ppm	R1109, R1114	2	PCS
71	240K 1%	240K 1% 0402 1/16W 100ppm	R1110	1	PCS
72	22R 1%	22R 1% 0402 1/16W 100ppm	R1116	1	PCS
73	150K 1%	150K 1% 0402 1/16W 100ppm	R1117, R1313, R1322	3	PCS
74	33K 1%	33K 1% 0402 1/16W 100ppm	R1121	1	PCS
75	3.3K 1%	3.3K 1% 0402 1/16W 100ppm	R1122, R1213	2	PCS
76	12.4K 1%	12.4K 1% 0402 1/16W 100ppm	R1123	1	PCS
77	470R	470R 1% 0402 1/16W 100ppm	R1200, R1201, R1320, R1321	4	PCS
78	39K 1%	39K 1% 0402 1/16W 100ppm	R1210	1	PCS
79	OR	OR 0402 1/16W Jumper	R1212, R1222, R1607, R1610, R1611, R1613, R1614, R1626, R1700, R1703, R1704, R1706	12	PCS
80	1M	1M 1% 0402 1/16W 100ppm	R1220	1	PCS
81	100R 1%	100R 1% 0402 1/16W 100ppm	R1300, R1302	2	PCS
82	47K 1%	47K 1% 0603 1/10W 100ppm	R1301, R1309	2	PCS
83	4.7K 1%	4.7K 1% 0402 1/16W 100ppm	R1303, R1612, R1619, R1622	4	PCS

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84	15K 1%	15K 1% 0402 1/16W 100ppm	R1304	1	PCS
85	40.2K 1%	40.2K 1% 0402 1/16W 100ppm	R1317, R1327	2	PCS
86	68K 1%	68K 1% 0402 1/16W 100ppm	R1608	1	PCS
87	4.7K@25C	NTC 4.7K@25C 5% 0402 B25/50=3500K 100mW	RT1200	1	PCS
88	HM3200	Switched Capacitor 5V Boost Converter Uin=2.7-5V Iout=300mA Uout=5V SOT23-6L -30+85	U1100	1	PCS
89	AME2056-AZA	1A Single Cell Li-ion Battery Linear Charger HSOP8 -40+85	U1101	1	PCS
90	MP4423HGQ	Buck Switching Regulator IC Positive Adjustable Uin 36V Uout 0.8-32V 1 Output 3A 8-QFN (3x3) -40+125	U1102	1	PCS
91	LSM6DS3TR	Accelerometer Gyroscope 3 Axis Sensor I ² C/SPI Output 12bit V=1.7-3.6V 1.25mA LGA14_3x2.5x1 -40+85	U1200	1	PCS
92	ESDU5V0M5	2-ch TVS Diode Unidirectional array (Steering) Urwm=5V 0.8pF@MHz Ipp=3.5A Ppp=90W SOT563	U1202	1	PCS
93	ICL3232IVZ	2.7V->5.5V RS232(2x2) Transceiver ESD TSSOP16 250kbps -40+85	U1300	1	PCS
94	ZXMS6004DN8	Dual Fully autoprotected Power MOSFET Umax=60V Imax=1.3A Ucc=3.3V/5V Ron=500mOhm SO8 - 40+125	U1301	1	PCS
95	AP7341-18	IC REG LDO 1.8V 0.3A 4DFN -40+85	U1600, U1602	2	PCS
96	AG3335MN	L1 G3B QZSS SBAS + L5 NavIC Dual- Band GNSS Receiver 3.8x4.2x0.86mm - 40+85	U1601	1	PCS
97	SGM2036- 0.9YUDH4G/TR	IC REG LDO 0.9V 0.3A 4DFN -40+85	U1603	1	PCS
98	AR8159	Low Noise Amplifier for GNSS 1.6...3.6V 6-uDFN 1.5x1.0x0.75 -40+85	U1700	1	PCS
99	FAR-F6KA-1G5859- D4MS	GPS+GLONASS SAW RF Filter 1.4x1.0x0.5mm 1.2(1.8max)dB -30+85	U1702, U1704	2	PCS
100	RFBPF2012040ABT	Band Pass Filter 2450MHz ±50MHz 2.5dBmax 50-50Ohm 2.0x1.25x0.45mm -40+85	U1706	1	PCS

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APPENDIX

No.6

EUT Photos

