



NSAI
Certification

ECE TYPE-APPROVAL CERTIFICATE



Communication Concerning: Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

Of a type of electrical/electronic sub-assembly with regard to Regulation No.10.

Approval No: **E24 10R-052365**

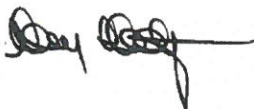
Extension No: *N/A*

Reason for extension: *N/A*

1. Make (trade name of manufacturer):
*Viasat S.p.A.
Viasat Group S.p.A.
Elem S.p.A.
Vem Solutions s.r.l.*
2. Type and general commercial description:
*JSC
Black Box
(GPS/GSM localizer and emergency system)*
3. Means of identification of type, if marked on the component:
Adhesive label
- 3.1 Location of that marking:
On side of plastic case
4. Category of vehicle:
See Appendix
5. Name and address of manufacturer:
*Viasat S.P.A
Via Tiburtina 1180 00156
Roma (Italy)*
6. In the case of components and separate technical units, location and method of affixing of the ECE approval mark:
On adhesive label
7. Address(es) of assembly plant(s):
*Elem S.P.A
Via Aosta 20/22/24
10078 Veraria Reale (TO)
Italy*

Approval No: E24 10R-052365

Extension No: *N/A*

8. Additional information (where applicable): *See appendix*
9. Technical service responsible for carrying out the tests: *IMQ S.p.A
Via Quintiliano, 43
I-20138 Milano*
10. Date of test report: *09.11.2017*
11. Number of test report: *AR17-0017337-01*
12. Remarks (if any): *See Appendix*
13. Place: *Dublin*
14. Date: *30th November, 2017*
15. Signature: 



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

Appendix

To type-approval communication concerning the type approval
of an electrical/electronic sub-assembly under Regulation No.10.

- | | |
|--|---|
| 1. Additional information | |
| 1.1. Electrical system rated voltage: | <i>12V/24V, negative ground</i> |
| 1.2. This ESA can be used on any vehicle type with the following restrictions: | <i>See manufacturer's specifications.</i> |
| 1.2.1 Installation conditions, if any: | <i>See manufacturer's specifications.</i> |
| 1.3. This ESA can only be used on the following vehicle types: | <i>N/A</i> |
| 1.3.1 Installation conditions, if any: | <i>N/A</i> |
| 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: | <i>Bulk current injection method
 Frequency range: 20 - 200 MHz
 Free field testing method
 Frequency range: 200 - 2000 MHz</i> |
| 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | <i>IMQ S.p.A</i> |
| 2. Remarks: | <i>N/A</i> |

Appendix to type-approval communication concerning the
type approval of a vehicle under Regulation No.10.

- | | |
|--|------------|
| 1. Additional information | |
| 2. Special devices for the purpose of Annex 4 to this Regulation: | <i>N/A</i> |
| 3. Electrical system rated voltage: | <i>N/A</i> |
| 4. Type of bodywork: | <i>N/A</i> |
| 5. List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: | <i>N/A</i> |
| 5.1 Vehicle equipped with 24 GHz short-range radar equipment (yes/no): | <i>N/A</i> |
| 6. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | <i>N/A</i> |
| 7. Remarks: | <i>N/A</i> |