

Aplicom Oy  
Teemu Stålhammar  
PL 33 (Rautatienkatu 56)  
44101 ÄÄNEKOSKI**PÄÄTÖS**Päiväys 3.4.2008  
Dnro 344/206/2008  
Viite Hakemus 29.2.2008

Asia Tyypin hyväksynnän myöntäminen

Hyväksyntänumero e17\*72/245\*2006/28\*0202\*00

Säädösperusta Ajoneuvolaki 11.12.2002/1090 ja Valtioneuvoston asetus ajoneuvojen hyväksynnästä 19.12.2002/1244.  
Euroopan neuvoston direktiivi 70/156/ETY siten kuin se on viimeksi muutettuna komission direktiivillä 2001/116/EY.  
Euroopan neuvoston direktiivi 72/245/ETY siten kuin se on viimeksi muutettuna komission direktiiveillä 2004/104/EY, 2005/49/EY, 2005/83/EY ja 2006/28/EY.

Tyyppi ja käyttötarkoitus A1; ajoneuvotietokone, versiot: A1, A1 BOX, A1 FLEX, A1 MAX, A1 TRAX

Kauppanimi tai -nimet Aplicom

Jokainen tämän päätöksen tarkoittama tuote on merkittävä hyväksynnän perusteena olevien säästöjen edellyttämällä hyväksyntämerkinnällä. Tällaisella merkinnällä varustetun tuotteen on vastattava tyyppi hyväksyntätestin hyväksytyksi läpäissyttä tuotetta. Hyväksyntä voidaan peruuttaa, mikäli ilmenee, etteivät hyväksyntämerkinnällä varustetut tuotteet täytä hyväksynnän perusteena olevien säästöjen vaatimuksia.

Tarkastusinsinööri

  
Marko Sinerkari

Ylitarkastaja

  
Timo Kärkkäinen

Lasku

450 €

LIITTEET

Sivuja

Hyväksyntätodistus nro

e17\*72/245\*2006/28\*0202\*00

3

**EC TYPE-APPROVAL CERTIFICATE**

Communication concerning the

- type-approval
- ~~extension of type approval~~
- ~~refusal of type approval~~
- ~~withdrawal of type approval~~

of a type of component/~~separate technical unit~~ with regard to Directive 72/245/EEC as last amended by Directives 2004/104/EC, 2005/49/EC, 2005/83/EC, and 2006/28/EC.

Type-approval number: e17\*72/245\*2006/28\*0202\*00

Reason for extension: -

EC type-approval mark to be affixed on ESA:



030202

## SECTION I


- 0.1. Make (trade name of manufacturer): Aplicom
- 0.2. Type: A1; universal telecommunication platform for vehicles. Internal and external backup battery option.  
Versions: A1, A1 BOX, A1 FLEX, A1 MAX, A1 TRAX
- 0.3. Means of identification of type, if marked on the component/~~separate technical unit~~: Serial number label
- 0.3.1. Location of that marking: Casing of processing unit
- 0.5. Name and address of manufacturer: Aplicom Oy  
P.O. Box 33 (Rautatiekatu 56)  
FI-44101 Äänekoski, FINLAND
- Name and address of authorised representative, if any: -



Date  
03.04.2008Index no.  
344/206/2008

- 0.7. In the case of components and separate technical units, location and method of affixing of the EC approval-mark: Casing of processing unit, in a serial number label
- 0.8. Address(es) of assembly plant(s): Aplicom Oy  
P.O. Box 33 (Rautatienkatu 56)  
FI-44101 Äänekoski, FINLAND

## SECTION II

1. Additional information (where applicable): see Appendix
2. Technical service responsible for carrying out the tests: Nemko Oy  
P.O.Box 19  
FI-02601 Espoo, FINLAND
3. Date of test report: 24.01.2008
4. Number of test report: 99896
5. Remarks (if any): -
6. Place: Helsinki
7. Date: 03.04.2008
8. Signature:   
Marko Sinerkari  
Inspection Engineer
9. The type-approval file deposited at the Administrative Service having delivered the type-approval, may be obtained on request.



**Appendix to EC type-approval certificate No e17\*72/245\*2006/28\*0202\*00  
concerning the type-approval of an electric/electronic subassembly with regard to Directive  
72/245/EEC as last amended by Commission Directive 2006/28/EC**

- |        |   |  |
|--------|---|--|
| 1.     | Additional information:   |  |
| 1.1.   | Electrical system rated voltage:  | 12 and 24 V DC, negative grounded  |
| 1.2.   | This ESA can be used on any vehicle type with the following restrictions:   | not applicable   |
| 1.2.1. | Installation conditions, if any:  | Supply voltage: 6 V DC...48 V DC<br>Operation temperature: -30 °C...+60 °C<br>Storage temperature: -40 °C...+70 °C |
| 1.3.   | This ESA can only be used on the following vehicle types:   | not applicable   |
| 1.3.1. | Installation conditions, if any:  | not applicable   |
| 1.4.   | The specific test method(s) used and the frequency ranges covered to determine immunity were (please specify precise method used from Annex IX):        | Absorber Chamber test: ISO DIS 11452-2:2004, 20–2000 MHz   |
| 1.5.   | Laboratory accredited to ISO 17025 and recognised by the Approval Authority (for the purpose of this Directive) responsible for carrying out the tests: | Nemko Oy<br>P.O. Box 19<br>FI-02601 Espoo, FINLAND   |
| 5.     | Remarks:  | -  |

e17\*72/245\*2006/28\*0202\*00



**Index to the information package of the EC type-approval certificate**

Type-approval number: e17\*72/245\*2006/28\*0202\*00

Document	Means of identification	Date	Number of pages
Information document	e008002	02.04.2008	2
Test report	99896	21.02.2008	18
Circuit diagram	6124206	31.10.2007	17
Printed circuit board layout	CPUF 6	22.10.2007	9
Circuit diagram	6124224	31.10.2007	5
Printed circuit board layout	Obca4 61244224	24.09.2007	11
Parts list	D504208	04.01.2008	5
Parts list	D504252	04.01.2008	3
Parts list	D504271	04.01.2008	3
Total number of pages			73

e17\*72/245\*2006/28\*0202\*00



Information document no e008002 relating to EEC type-approval of an electric/electronic sub-assembly with respect to electromagnetic compatibility (72/245/EEC), as last amended by directive 2004/104/EC.

0. General
- 0.1 Make (trade name of manufacturer): **APLICOM**
- 0.2 Type and general commercial description(s): **A1; universal telecommunication platform for vehicles, versions: A1, A1 BOX, A1 FLEX, A1 MAX, A1 TRAX, internal backup battery option, external backup battery option.**
- 0.3 Means of identification of type: A serial number label
- 0.4 Location of that marking: Casing of processing unit
- 0.5 Name and address of manufacturer: **Aplicom Oy**  
P.O. Box 33 (Rautatiekatu 56)  
FIN-44101 Äänekoski  
FINLAND
- 0.6 Location and method of affixing of the EEC approval mark: **Casing of processing unit**, in a serial number label
- 0.7 Address of assembly plant: **Aplicom Oy**  
P.O. Box 33 (Rautatiekatu 56)  
FIN-44101 Äänekoski  
FINLAND
1. This ESA shall be approved as a component.

e17\*72/245\*2006/28\*0202\*00



2. Any restrictions of use and conditions for fitting:

Fixed vehicle mounted electrically powered communication server for vehicles.

Supply voltage:	6VDC...48VDC
Operation temperature:	-30°C ... +60°C
Storage temperature:	-40°C ... +70°C

### Appendix I

#### Description of the ESA chosen to represent the type:

Aplicom A1 FLEX universal telecommunication platform for vehicles with integrated GPRS and GPS modules, internal and external backup battery options installed (servers under testing).

#### Other communication server variants:

Aplicom A1 universal telecommunication platform for vehicles include variants – Tested version A1 FLEX is version with full options enabled, internal quadband GPRS module, internal GPS, combination of internal and external backup battery options. A1 BOX is like tested unit excluding disabled CAN-bus and tachograph interfaces. A1 TRAX is like tested unit excluding disabled CAN-bus and tachograph interfaces and factory installed tracking software. A1 MAX is like tested unit excluding factory installed telematic software. Variants without battery option are available. A1 is like tested unit excluding factory installed customer specific software. Variants with only internal or only external battery option are also available. Variant with different sensitivity of GPS-module are available within limits of pin compatibility.

### appendix II

Relevant test report supplied by NEMKO Product Services Oy for the purpose of drawing up the type-approval certificate.

