


## COMMUNICATION

 **E 17** 10 R - 04 0020

concerning:

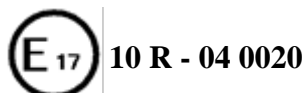
~~APPROVAL GRANTED~~  
~~APPROVAL EXTENDED~~  
~~APPROVAL REFUSED~~  
~~APPROVAL WITHDRAWN~~  
~~PRODUCTION DEFINITELY DISCONTINUED~~

of a type of electrical/electronic sub-assembly with regard to Regulation No. 10 as amended by the 04 series of amendments.

Approval No. **040020**Extension No. **09**

- |      |   |   |
|------|---|---|
| 1.   | Make (trade name of manufacturer):  | Sunit   |
| 2.   | Type and general commercial description(s):   | SFDIN1; vehicle computer or taximeter<br><br>Versions: SFDIN1-521521, SFDIN1-722583D, SFDIN1-722583E, SFDIN1-722543D, SFDIN1-722543E, SFDIN1-411543D, SFDIN1-411543E, SFDIN1-411543-AT, <i>SFDIN1-742043</i> , <i>SFDIN1-742083</i><br><br>Model name: Sunit fd (version SFDIN1-521521), Sunit fc2 (SFDIN1-411543D, SFDIN1-411543E, SFDIN1-411543-AT), Sunit fd2 (SFDIN1-722583D, SFDIN1-722583E, SFDIN1-722543D, SFDIN1-722543E) and <i>Sunit fdq (SFDIN1-742043, SFDIN1-742083)</i> |
| 3.   | Means of identification of type, if marked on the <del>vehicle</del> /component/ <del>separate technical unit</del> : | Type label  |
| 3.1. | Location of that marking:   | On the top of the CPU   |
| 4.   | Category of vehicle:  | Not applicable  |

5. Name and address of manufacturer: Sunit Oy  
Taitoraitti 1  
FI-87400 Kajaani  
FINLAND
6. In the case of components and separate technical units, location and method of affixing of the ECE approval-mark: Located in the type label.
7. Address(es) of assembly plant(s): See item 5.
8. Additional information (where applicable): See appendix
9. Technical service responsible for carrying out the tests: Nemko Oy  
P.O.Box 19  
FI-02601 Espoo, FINLAND
- SGS Fimko EMC Oy  
P.O. Box 19  
FI-02601 Espoo, FINLAND
- SGS Fimko Ltd.  
(Särkiniementie 3)  
P.O. Box 30  
FI-00211 Helsinki, FINLAND
- SP Technical Reseach Institute of Sweden  
P.O. Box. 857  
SE-50115 Borås  
SWEDEN
10. Date of test report: 16.06.2010, 15.02.2011, 12.11.2008,  
26.09.2011, 27.02.2013, 2.12.2013,  
4.12.2013, 11.12.2013, 26.12.2013,  
30.05.2014, 21.11.2014, 31.07.2015,  
21.07.2016, 03.10.2016, 07.09.2016 and  
29.08.2017
11. No. of test report: 149606E, 156448, 116598e2, 188126,  
231872E, 231873E, 248235-1, 248235-  
2, 248236-2, 248236-1, 276386,  
278242-1, 280927-1-1, 280927-1-2,  
285183-1, 286034-1, 6P01814EC rev.1,  
289253-3 and 289253-4



## 12. Remarks (if any):

This vehicle computer/taxi meter may contain the following components: central unit (see item 2, versions), display(s) (f7, f10, f12, f19, f22), USB-hub, *USB 3.0 HUB*, video camera (Sunit IC, Samsung, LG, Boyo Vision, Marshall or Wonwoo), USB remote controller, USB 4-key panel, power cable, display cable, video cable, XUSB cable, combination antenna, WLAN antenna, LCDi-display, alarm-button, Sunit Fox camera system, keyboard with backlight, *Sunit MP-buttons/5-key panel USB*.  
For more detailed information, see page 7 of information document 201709011010.

## 13. Place:

Helsinki

## 14. Date:

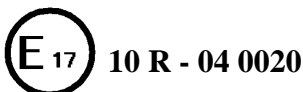
05.09.2017

## 15. Signature:

Marko Sinerkari  
Head of Unit

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

- Information document no. 201709011010, 01.09.2017, 7 pages
- Version information document 201708311445, 31.08.2017, 661 pages
- Version information document 201708311420, 31.08.2017, 690 pages
- Test report 289253-3, 29.08.2017, 19 pages
- Test report 289253-4, 29.08.2017, 19 pages



## 17. Reasons for extension:

*Two new CPU-versions are added to the type-approval.*

*New devices to be used in connection with central units are added (Wonwoo x35 video camera, Sunit MP-buttons/5-key panel USB 8639232 RCB310-A-1 and f19 display FDP5X-1850WXR504LO).*

*Changes made into some components inside the Central Processing Units and accessories (motherboards, cards, 4G-modems, hard drives and circuit boards).*

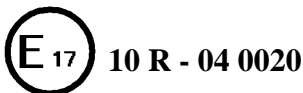
**E<sub>17</sub>** 10 R - 04 0020



Appendix to type-approval communication form No. 040020 extension 09 concerning the type-approval of an electrical/electronic sub-assembly under Regulation No. 10 as amended by the 04 series of amendments.

1. Additional information

- 1.1. Electrical system rated voltage: 12 V pos/neg ground
- 1.2. This ESA can be used on any vehicle type with the following restrictions: not applicable
- 1.2.1. Installation conditions, if any: -
- 1.3. This ESA can only be used on the following vehicle types: not applicable
- 1.3.1. Installation conditions, if any: -
- 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):
- Stripline test: ISO 11452-5:2002, 20-80 MHz; Absorber Chamber test: ISO 11452-2:2004, 80–2000 MHz
- Absorber Chamber test: ISO 11452-2:2004, 20–2000 MHz
- Bulk Current Injection test: ISO 11452-4:2005, 20-200 MHz  
Absorber Chamber test: ISO 11452-2:2004, 80–2000 MHz
- Bulk Current Injection test: ISO 11452-4:2005, 20-80 MHz  
Absorber Chamber test: ISO 11452-2:2004, 80–2000 MHz
- Bulk Current Injection test: ISO 11452-4:2005, 20-200 MHz  
Absorber Chamber test: ISO 11452-2:2004, 20–2000 MHz



1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:


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P.O.Box 30  
FI-00211 Helsinki, FINLAND

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SP Technical Research Institute of Sweden  
P.O. Box. 857  
SE-50115 Borås  
SWEDEN

2. Remarks:

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