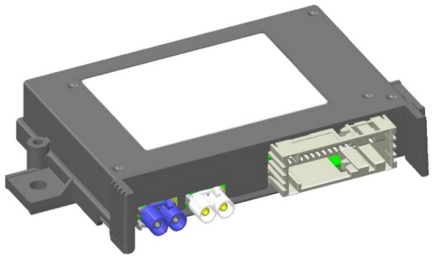
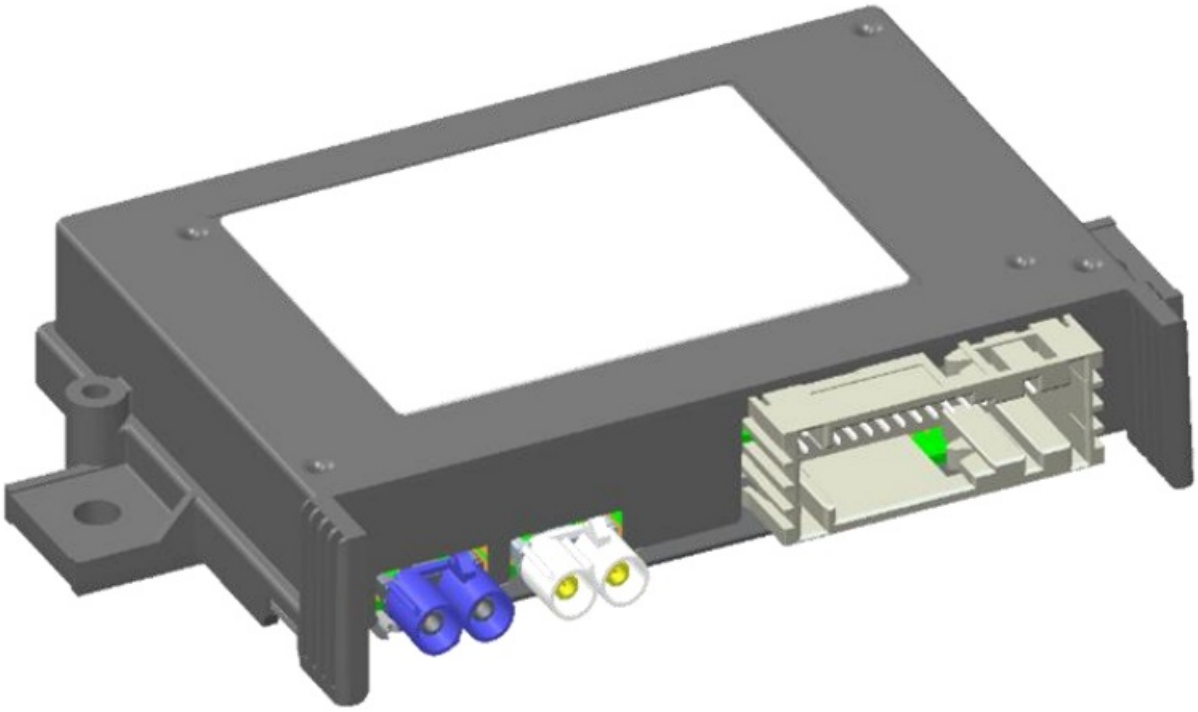
Manuals+ — User Manuals Simplified.



HARMAN HERMES3 Hardware for Enhanced Remote User Manual

HERMES 3.0
Hardware for Enhanced Remote-, Mobility- & Emergency Services



Hereby, Harman Becker Automotive Systems GmbH declares that the radio equipment type HERMES 3.0 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet Address: (*1)

overview of the technical radio values:

WLAN: 2400-2483,5 MHz < 20 dBm
WLAN: 5736-5833 MHz < 14 dBm
GSM: EGSM900, Class 4 < (+33dBm ± 2dB)
GSM: EGSM1800, Class 1 <(+30dBm ± 2dB)
GSM: EGSM 900 8-PSK, Class E2 <(+27dBm ± 3dB)
GSM: EGSM 1800 8-PSK, Class E2 <(+26dBm ± 3dB / -4dB)
UMTS 2100: WCDMA FDD B 1, Class 3 <(+24dBm ± 1dB / -3dB)
LTE: FDD B I, Class3 <(+23dBm ± 2dB)
LTE: FDD B III, Class3 <(+23dBm ± 2dB)
LTE: TDD B38, Class3 <(+23dBm ± 2dB)
LTE: TDD B39, Class3 <(+23dBm ± 2dB)
LTE: TDD B40, Class3 <(+23dBm ± 2dB)
LTE: TDD B41, Class3 <(+23dBm ± 2dB)
GPS: 1575,42 MHz +/- 2 MHz (Receiving only)

Manufacturer: Harman Becker Automotive Systems GmbH
Becker-Goering-Strasse 16
76307 Karlsbad,
Germany

Contents

1 SAR
2 ECE type approval
3 Target market overview
4 (USA-Systeme)
5 Systeme notwendig
6 Bluetooth-Qualifikation
7 Material
8 Documents / Resources
8.1 References
9 Related Posts

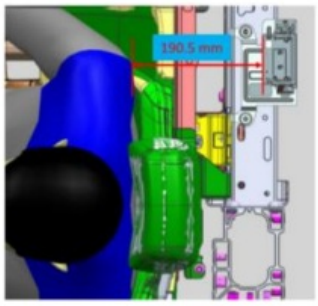
SAR

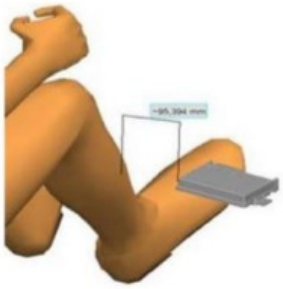
Specific requirement for France: From 1 July 2020, according to “Decree No. 2019-1186 relating to the display of the Specific Absorption Rate of radio equipment” (NOR: SSAP1834791D), the specific absorption rate value (SAR) for any radio equipment with an output greater than 20 mW and which is likely to be used in a reasonably foreseeable manner near the head or at a distance of less than or equal to 20 cm from the human body shall be provided in a legible, intelligible and visible manner in the user manual. This requirement is currently applicable only to mobile phone devices, according to “Decree No. 2010-1207 relating to the display of the Specific Absorption Rate of radio terminal equipment (NOR: SASP1011528D).

The maximum reported* SAR values for body-worn exposure conditions. The device conforms to the requirements of the standards when the maximum reported SAR value is less than or equal to the limit. The SAR10g limit for general population/uncontrolled exposure is 2.0 W/kg for body specified by council recommendation 1999/519/EC Annex II.

System	Highest Reported' SARI$_{O,;}$(W/kg) in Body-Worn Condition
GPRS 900	0.036
GPRS 1800	0.01
WCDMA I	0.009
WCDMA III	0.022
WCDMA VIII	0.032
LTE 1	0.006

LTE 3	0.019
LTE 7	0.003
LTE 8	0.024
LTE 20	0.094
LTE 28	0.01
SGHz WLAN	0.003





Picture left: Minimum distance of 190mm between GSM/UMTS/LTE-Antenna and passenger
Picture right: Minimum distance of 95mm between WLAN Antenna and passenger

ECE type approval

ECE R10 Typgenehmigung

- Wird vom OEM auf Fahrzeugebene mit dem eingebauten HERMES 3.0 Modul durchgeführt

Target market overview

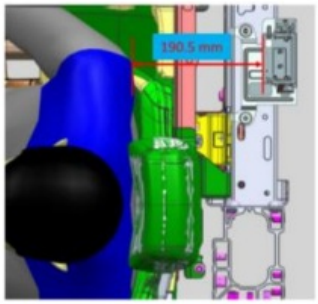
The following countries are the target market in which a homologation and certification was done.
Europe: European Union and EFTA (27+4), United Kingdom
Albania, Armenia, Bosnia-Herzegovina, Cyprus North, Kosovo, Kyrgyzstan, Macedonia, Montenegro, Serbia, Turkey, Ukraine CUSTOMS UNION (Russia, Kazakhstan, Belarus)

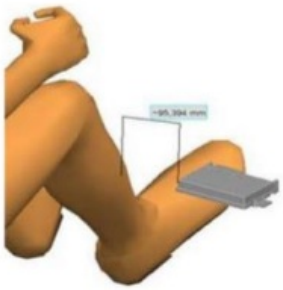
North America: Canada, USA
Central America: Guadelope, Martinique, Mexico
South America: French Guayana
Asia: China, Hong Kong, India, Japan, Macau, Malaysia, Singapore, South Korea, Taiwan, Thailand
Middle East: Gaza, Israel, United Arab. Emirates, Westjordanland,
South Africa: Botswana, Eswatini, Lesotho, ReUnion, Namibia, South Africa
Oceania: Australia, French Polynesia/Tahiti, New Caledonia, New Zealand

(USA-Systeme)

The user manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.
Sample of this statement:
Federal Communications Commission (FCC) Compliance Statement – United States
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) the device must accept any interference received, including interference that may cause undesired operation.
Caution – FCC Warning:
Changes or modifications not expressly approved by the party, responsible for compliance, could void the user's authority to operate the equipment.
RF Exposure Requirements
The maximum reported* SAR values for transmitting systems are shown in the table below. The device conforms to the requirements of the standards when the maximum reported SAR value is less than or equal to the limit. The SAR limit specified in FCC 47 CFR part 2 (2.1093) for Body-worn SAR1g is 1.6 W/kg. The minimum antenna distance is for WLAN 90mm and for GSM/UMTS/LTE 190mm.

System	Highest Reported' SARIAW/kg) in Body- Worn Conditi on, 0mm
GPRS 850	0.099
GPRS 1900	0.031
WCDMA 2	0.05
WCDMA 4	0.186
WCDMA 5	0.092
LTE 2	0.152
LTE 4	0.164
LTE 5	0.067
LTE 12	0.16
LTE 13	0.09





Picture left: Minimum distance of 190mm between GSM/UMTS/LTE-Antenna and passenger
Picture right: Minimum distance of 95mm between WLAN Antenna and passenger

The User manual shall contain the following or equivalent statements in a conspicuous position:
ISED – Canada Compliance Statement
This digital apparatus complies with DHHS rules21 CFR.
Subchapter Japplicable to the date of manufacture.
This device complies with ISED Canada's license-exempt RSS standards. Operation is subject to the following two conditions:

(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Systeme notwendig

China Restriction of certain Hazardous Substances (China RoHS)

Part name	Toxic and hazardous substances and elements					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Chassis	0	0	0	0	0	0
connectors	0	0	0	0	0	0
PCB ASY	0	0	0	0	0	0

Environmental information
Pollution control label

HERMES 3.0 Version with RTM (Real Time Monitoring)
Model: HERMES 3.0 RTM
Same table for CHINA RoHS as above!

Asset out in Chapter 4 of the 'Disposición Técnica IFT-008-2015', the user manual of any radio equipment for spread spectrum complies with the following conditions:

1) The user manual must be written in Spanish and contains sufficient, clear, and true information, and must not confuse the consumer in terms of Article 32 of the
Federal Law of Consumer Protection (LFPC).
2) The user manual must contain the following legend or its equivalent in a remarkable position:

The user's manual has to be in Russian language (at least a quick installation guide and safety tips).

Decision No. 879, "Electromagnetic compatibility of technical means" (CU TR 020/2011) (same requirements for Decision No. 768 "On the safety
of low-voltage equipment" (TP TC TC 004/2011)) According to this decision:
• Article 5: The minimum requirements for the user manual are:

1. Equipment type
2. Model, trademark
3. Ratings (voltage)
4. Manufacturer (name, location, and contact information)
5. Country of origin
6. Scope of use
7. Detailed specification
8. Safety using requirements

9. Installing, storing, shipping, sailing, and utilization requirements
10. Measures shall be taken if the equipment is out of order
11. Name, address, and contact info of CU representative or importer, phone, e-mail
12. Making date (month and year) or place where it can be found
13. EAC mark (please, refer to the labeling requirements)
14. User manual shall be made in the Russian language and in the official language of the respective member state if it is required by the laws of the member state.
15. User manual shall be executed in hard copy. A set of operating documents in electronic format may be attached therewith. User manual attached to technical devices for non-household purposes may be executed in electronic format only.

• Article 8:
1. The conformity mark shall be affixed on the device and on the user manual.
The following information has to be included in the user's manual:

1. Product name
2. Model name
3. Trademark or applicant name
4. For BSMI safety, rating (voltage and current) and operation temperature.
5. NCC caution statement. The following warning statement should be written in Chinese:

Any changes or modifications are not allowed. The product is subject to not cause harmful interference to radio communications and air flight safety. If this equipment does cause interference, which can be determined to stop shipping till the product is improved.
This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.' In the Chinese language, the warning would be:
For WiFi 2.4G
For WiFi 5G
For TTE : below warning statement also need to stamp on the product itself.

Only need to be showed on user's manual. The NOTE can be put in a separate paper if you do not want to re-print the user manual.

: HERMES 3.0						
Equipment name			Type designation (Type)			
U nit	Restricted substances and its chemical symbols					
	Lead (Ph)	Mercury (Hg)	3admium (Cd)	Hexavalent c hromium (Cr^{+6})	Polybrominate d biphenyls(PBB)	Polybrominated diphenyl ethers (PBDE)
Chassis	()	0	0	0	0	0
connectors	0	0	0	0	0	0
PCB ASY	0	0	0	0	0	0
Note 2 “○” indicates that the percentage content of the restricted substance does not exceed the percentage of t he reference value of presence. Note 3 The “–” indicates that the restricted substance corresponds to the exemption. Note 1 “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicates that the percentage content of the restricted substance exceeds the reference percentage value of present condition.						

User manual in Korean language is mandatory.
According to Annex 4 of the ‘RRA – Notice on Conformity Assessment of Broadcasting and Communications Equipment, the User Manual should include an overview of the equipment, specifications, configuration, and operation methods of the device.
For equipment subject to EMC standards, only applicable to Class A Equipment (Industrial Broadcasting & Communication Equipment), the user instructions should include:

English Translation: This equipment has been tested for compliance with the intended use in a commercial environment. If the equipment is used in a domestic environment, it may cause radio interference.)

Brand / Бренд: Mercedes-Benz
Modelname / Назва моделі: HERMES 3.0
Manufacturer / Виробник:
Harman Becker Automotive Systems GmbH
Becker-Goering-Strasse 16
76307 Karlsbad,
Germany

The user manual shall include the following:
1. The label specified in the attached picture (not required if it is included in the device and/or the packaging). It is acceptable to include it in a soft (electronic) copy of the user manual.
2. A description of the method adopted to display the compliance label and provide clear instructions on how consumers may locate the electronic compliance label for their own verification (not required if this information is included in the user manual).
Due to the change of the Authority’s name, there will be a transitional arrangement for the labeling of registered telecommunication equipment.
– – Equipment that has been registered or renewed after 1 October 2016 with IMDA, shall be affixed with the IMDA compliance label.

Complies with IMDA Standards (Dealers Licence No.]
Complies with umnA Standards DB123456
Label See 17mm by 9nrn Example (Not to Scala)

Dealer license No.: from Daimler importer

Bluetooth-Qualifikation

Bluetooth wird bei HERMES 3.0 nicht unterstützt.

Material

HERMES 3.0
Hardware for Enhanced Remote-, Mobility- & Emergency Services
Stand: DRAFT V02 17.06.2021

Harman Becker Automotive Systems GmbH	Mercedes Benz AG
Name:	Name:

Documents / Resources

	HARMAN HERMES3 Hardware for Enhanced Remote [pdf] User Manual HERMES3, T8GHERMES3, HERMES3 Hardware for Enhanced Remote, HERMES3, Hardware for Enhanced Remote

References

- HARMAN International
- HARMAN International
- Compliance | HARMAN
- Declarations of Conformity | Zebra Technologies

Manuals+,