

EXPERTISE

Expert Opinion of the Notified Body based on the Conformity Assessment according to Annex IV of the R&TTE Directive 1999/5/EC

Eurofins Product Service GmbH

EU Identification Number **0681**

recognized by



BNetzA-bS-02/51-53

Registration Number: **G0M-1103-1033-C**

Certificate Holder: **IPmotion GmbH, Ludwig-Rinn-Straße 8-16
35452 Heuchelheim, Germany**

Model Name: **CAR-A-WAN.automotive v3**

Derived Models: **CAWv3MC8790, CAWv3MC8790P, CAWv3MC8700, CAWv3MC8700P**

Brand Name: **IPmotion**

Product Description: **2G/3G Router with WLAN Access Point, Mobile Station**

Applied harmonised Standards: Safety/Health: EN 60950-1:2006+A11:2009

EN 62311:2008

EMC: EN 301 489-7 V1.3.1

EN 301 489-17 V2.1.1

EN 301 489-24 V1.5.1

EN 301 489-1 V1.8.1

Radio: EN 301 511 V9.0.2

EN 301 908-1 V3.2.1

EN 301 908-2 V3.2.1

EN 300 328 V1.7.1

This certificate is issued in accordance with Annex IV of the R&TTE Directive 1999/5/EC of 9th March, 1999 and is only valid in conjunction with the following annex: - 1 -

Marking Example according to Article 12 of the R&TTE Directive:

CE0681 



Reichenwalde, 18 March 2011

Ort, Ausstellungsdatum
Place, Date of Issue

Unterschrift von/Signed by Jörg Kusig
Benannte Stelle/Notified Body



Opinion on the essential requirements

Article 3.1a) Health and Safety	Test cases are validated and accepted for this application EN 60950-1/A11:2009
Article 3.1.b) electromagnetic compatibility	no remarks
Article 3.2 effective use of the radio spectrum	<ul style="list-style-type: none"> - based on approved module - EN 301 908-1/2 V3.2.1 are for the presumption of conformity still applicable up to 2011-11-30. Afterwards only the follower EN 301 908-1/2 V4.2.1 will be applicable - GPS not assessed

Manufacturer(s)	IPmotion GmbH Ludwig-Rinn-Straße 8-16 35452 Heuchelheim, Germany
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System description

Frequency band(s)	<p>E-GSM 900 Band (includes Standard GSM 900):</p> <ul style="list-style-type: none"> - 880 MHz to 915 MHz: mobile transmit; - 925 MHz to 960 MHz: mobile receive. <p>E-GSM 1 800 Band (includes Standard GSM 1800)</p> <ul style="list-style-type: none"> - 1 710 MHz to 1 785 MHz: mobile transmit; - 1 805 MHz to 1 880 MHz: mobile receive. <p>UMTS</p> <ul style="list-style-type: none"> - 1 920 MHz to 1 980 MHz mobile transmit; - 2 110 MHz to 2 170 MHz mobile receive
RF-Power	<p>Class 4 – 2 W (33 dBm) GSM 900 Class 1 – 1 W (30 dBm) GSM 1800 Class 3 – 0.25 W (24 dBm) UMTS Class E2 - 0.5 W (27 dBm) E-GSM 900 Class E2 - 0.4 W (26 dBm) E-GSM 1800</p>
Comments	<p>European harmonised Frequency band</p> <p>Class Identifier: 1.9 Other radio equipment, which transmits only under the control of a network (Radio transmitters, technically harmonised in the Community for which Member States do not constrain their putting into service) incl. GSM handsets, including GSM 900, GSM 1800, GSM1900 (and when it appears GSM 450)</p>

Frequency band(s)	2.400 - 2.4835 GHz
Operating frequency/	2.402 - 2.4800 GHz
Channels	13
Transmit power	50.12 mW e.i.r.p.
Type of modulation	DSSS, OFDM
Type of antenna	external
Mode of operation (simplex/duplex)	duplex
Duty cycle (access protocol, if applicable)	Up to 100 %
Comments	<p>Sub-class 22 "Wideband Data Transmission Systems "</p> <p><i>"Equipment within the scope of subclass 22, but capable also of operating at 100 mW across the whole of the frequency band is not to be considered a class 1 device. They can be operated in the EU without restrictions indoor, but cannot be operated outdoors in France in the whole of the band until further notice. They have to be marked with the alert sign accordingly. Member States have however agreed, that they do not need to be notified to Member States under Article 6.4 of Directive 1999/5/EC, provided that users are informed about the restrictions of use."</i></p>

Technical Construction File

essential components of the technical construction file:

Test Report(s)	Safety/Health:	EMCC-X100663AB G0M-1103-1033-CC
	EMC:	EMCC-X100663A

User manual	CAR-A-WAN.automotive, March 2011
Technical Documentation	

including:	PCB Layout Circuit diagram, Rev 7B, 2008-09-04 Part list, 2010-07-21 Block Diagram Verwendungsergänzung, 2011-03-18 Expert Opinion, E815334V-EO, E815334V-EO
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Declarations:	Acc. to Article 3.1a: protection health/safety Acc. to Article 3.1b: relating electromagnetic compatibility Acc. to Article 3.2: relating radio spectrum
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Obligations of the Certificate Holder

An opinion is valid at the time of issue and relates only to the situation at that time. It is the manufacturer's responsibility to seek an updated opinion if they believe that a change in design, manufacture, requirements or any other matter calls in to question the validity of the opinion.

In this sense, there is no "duration of validity" for a notified body opinion. It remains valid for so long as the circumstances relevant to its issue remain unchanged. If there is a change, then it is the responsibility of the manufacturer to determine the need for a new or updated opinion.

The Declaration of Conformity must be supplied with each product; it can be a separated leaflet or be printed in the users manual or packaging.

Equipment, which at the time of placing on the market contains as an integral part a R&TTE component, which should not be removed by the user, should be marked according to the R&TTE Directive. In addition in its user manual it should comply with the R&TTE Directive and e.g. indicate geographic limitations of use.