

TEST REPORT

EN IEC 62311:2020

Product : CAR HEAD UNIT
Model Name : ADMEI, ADMEI7L, ADMEI7M, ADMEI9L, ADMEI10L,
ADMEI7A, ADMEI9A, ADMEI10A, ADMEI11A,
ADMEI12A, ADMEI13A, ADMEI14A
Brand : ADMEI
Report No. : RED2607080051824ED-AM-E

Prepared for

CENSER PTY LTD

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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant : CENSER PTY LTD
Address : M01/6 Wellington Rd, Box Hill VIC 3128 AU
Manufacturer : CENSER PTY LTD
Address : M01/6 Wellington Rd, Box Hill VIC 3128 AU
Product name : CAR HEAD UNIT
Model name : ADMEI, ADMEI7L, ADMEI7M, ADMEI9L, ADMEI10L, ADMEI7A, ADMEI9A, ADMEI10A, ADMEI11A, ADMEI12A, ADMEI13A, ADMEI14A

This device described above has been tested by RED, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests: Jul. 01, 2026 to Jul. 08, 2026

Date of Issue: Jul. 08, 2026

Test Result: Pass

Test Engineer:

Steve Liu



Technical Manager:

Hank Chan

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2 Test Summary

Test	Test Requirement	Test Method	Limit / Severity	Result
RF Exposure	EN IEC 62311	EN IEC 62311	-	PASS

Remark:

N/A: Not Applicable

RF: In this whole report RF means Radio Frequency.

A.M. Amplitude Modulation.

P.M. Pulse Modulation.

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3 General Information

3.1 General Description of E.U.T.

Product Name	:	CAR HEAD UNIT
Model Number	:	ADMEI
Additional model	:	ADMEI7L, ADMEI7M, ADMEI9L, ADMEI10L, ADMEI7A, ADMEI9A, ADMEI10A, ADMEI11A, ADMEI12A, ADMEI13A, ADMEI14A
Model difference	:	All the same except the model name and appearance.
WIFI2.4g		
Specification	:	802.11b/g/n HT20/HT40
Frequency range	:	2412-2472MHz
Operating frequency	:	2412-2472MHz for 802.11b(HT20); 2412-2472MHz for 802.11g(HT20); 2412-2472MHz for 802.11n(HT20); 2422-2462MHz for 802.11n(HT40);
Number of Channel	:	13 Channels for 802.11b, g, n(HT20); 9 Channels for 802.11n(HT40);
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna Gain:	:	0.88 dBi
Wifi5.2g		
Wifi Type	:	☒ Wifi 5G with 5150MHz-5250MHz Band ☐ Wifi 5G with 5250MHz-5350MHz Band ☐ Wifi 5G with 5470MHz-5725MHz Band ☐ Wifi 5G with 5745MHz-5825MHz Band
WLAN Supported	:	☒ 802.11a (20MHz channel bandwidth) ☒ 802.11n(20MHz channel bandwidth) ☒ 802.11n(40MHz channel bandwidth) ☒ 802.11ac(20MHz channel bandwidth) ☒ 802.11ac(40MHz channel bandwidth) ☐ 802.11ac(80MHz channel bandwidth) ☒ 802.11ax(20MHz channel bandwidth) ☒ 802.11ax(40MHz channel bandwidth) ☐ 802.11ax(80MHz channel bandwidth)

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Data Rate	802.11a:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 600 Mbps 802.11ac:up to 433Mbps 802.11ax:up to 1.733Gbps	
Modulation	☒ OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n; ☒ OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac; ☒ OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax;	
Frequency Range	☒ 5180-5240MHz for 802.11a; ☐ 5260-5320MHz for 802.11a; ☐ 5500-5700MHz for 802.11a; ☒ 5180-5240MHz for 802.11n(HT20); ☐ 5260-5320MHz for 802.11n(HT20); ☐ 5500-5700MHz for 802.11n(HT20); ☒ 5180-5240MHz for 802.11ac(HT20); ☐ 5260-5320MHz for 802.11ac(HT20); ☐ 5500-5700MHz for 802.11ac(HT20); ☒ 5180-5240MHz for 802.11ax(HE20); ☐ 5260-5320MHz for 802.11ax(HE20); ☐ 5500-5700MHz for 802.11ax(HE20); ☒ 5190-5230MHz for 802.11n(HT40); ☐ 5270-5310MHz for 802.11n(HT40); ☐ 5510-5670MHz for 802.11n(HT40);	☒ 5190-5230MHz for 802.11ac(HT40); ☐ 5270-5310MHz for 802.11ac(HT40); ☐ 5510-5670MHz for 802.11ac(HT40); ☒ 5190-5230MHz for 802.11ax(HE40); ☐ 5270-5310MHz for 802.11ax(HE40); ☐ 5510-5670MHz for 802.11ax(HE40); ☐ 5210MHz for 802.11ac(HT80); ☐ 5290MHz for 802.11ac(HT80); ☐ 5530MHz for 802.11ac(HE80); ☐ 5775MHz for 802.11ac(HT80); ☐ 5210MHz for 802.11ax(HT80); ☐ 5290MHz for 802.11ax(HT80); ☐ 5530MHz for 802.11ax(HE80); ☐ 5775MHz for 802.11ax(HT80);
TPC Function	☒ Applicable	☐ Not Applicable
Smart system	☒ SISO for 802.11a/n(HT20)/n(HT40)/ac(HT20)/ac(HT40)/ax(HE20)/ax(HE40) ☐ MIMO for 802.11 ac(HT20)/ac(HT40)/n(HT20)/n(HT40)	
Antenna Gain	0.65 dBi	
Antenna installation	PCB Antenna	
Power supply	DC12V	

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Hardware Version	:	/
Software Version	:	/

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4 RF Exposure Evaluation

4.1 Limits

Basic Restrictions

Council Recommendation 99/519/EC Annex II

Basic restrictions for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz)

Frequency range	Magnetic flux density (mT)	Current density (mA/m ²) (rms)	Whole body average SAR (W/kg)	Localized SAR (head and trunk) (W/kg)	Localized SAR (limbs) (W/kg)	Power density, S (W/m ²)
0Hz	40	-	-	-	-	-
>0-1Hz	-	8	-	-	-	-
1-4Hz	-	8/f	-	-	-	-
4Hz-1000Hz	-	2	-	-	-	-
1000Hz-100kHz	-	f/500	-	-	-	-
100kHz-10MHz	-	f/500	0.08	2	4	-
10MHz-10GHz	-	-	0.08	2	4	-
10GHz-300GHz	-	-	-	-	-	10

Note:

1. f is the frequency in Hz.
2. The basic restriction on the current density is intended to protect against acute exposure effects on central nervous system tissues in the head and trunk of the body and includes a safety factor. The basic restrictions for ELF fields are based on established adverse effects on the central nervous system. Such acute effects are essentially instantaneous and there is no scientific justification to modify the basic restrictions for exposure of short duration. However, since the basic restriction refers to adverse effects on the central nervous system, this basic restriction may permit higher current densities in body tissues other than the central nervous system under the same exposure conditions.
3. Because of electrical inhomogeneity of the body, current densities should be averaged over a cross section of 1 cm² perpendicular to the current direction.
4. For frequencies up to 100kHz, AV current density values can be obtained by multiplying the rms value by $\sqrt{2}$ (=1.414). For pulses of duration t_p the equivalent frequency to apply in the basic restrictions should be calculated as $1/(2t_p)$.
5. For frequencies up to 100kHz and for pulsed magnetic fields, the maximum current density associated with the pulses can be calculated from the rise/fall times and the maximum rate of change of magnetic flux density. The induced current density can then be compared with the appropriate basic restriction.
6. All SAR values are to be averaged over any six-minute period.
7. Localised SAR averaging Mass is any 10g of contiguous tissue; the maximum SAR so obtained should be the value used for the estimation of exposure. These 10g of tissue are intended to be a mass of

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contiguous tissue with nearly homogeneous electrical properties. In specifying a contiguous mass of tissue, it is recognized that this concept can be used in computational dissymmetry but may present difficulties for direct physical measurements. A simple geometry such as cubic tissue mass can be used provided that the calculated dissymmetric quantities have conservative values relative to the exposure guidelines.

8. For pulses of duration t_p the equivalent frequency to apply in the basic restrictions should be calculated as $f_{eq} = 1/(2t_p)$. Additionally, for pulsed exposures, in the frequency range 0.3 to 10GHz and for localized exposure of the head, in order to limit and avoid auditory effects caused by thermoplastic expansion, an additional basic restriction is recommended. This is that the SA should not exceed 2mJ kg⁻¹ averaged over 10g of tissue.

Reference Levels

Council Recommendation 99/519/EC Annex III

Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m ²)
0-1 Hz	-	3.2×10^4	4×10^4	-
1-8 Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25 Hz	10000	4000/f	5000/f	-
0.025-0.8 kHz	250/f	4/f	5/f	-
0.8-3 kHz	250/f	5	6.25	-
3-150 kHz	87	5	6.25	-
0.15-1 MHz	87	0.73/f	0.92/f	-
1-10 MHz	$87 f^{1/2}$	0.73/f	0.92/f	-
10-400 MHz	28	0.073	0.095	2
400-2000 MHz	$1.375 f^{1/2}$	$0.0037 f^{1/2}$	$0.0046 f^{1/2}$	f/200
2-300 GHz	61	0.16	0.2	10

Notes:

1. As indicated in the frequency range column.
2. For frequencies between 100kHz and 10 GHz, Seq, E2, H2 and B2 are to averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, Seq, E2, H2, and B2 are averaged over any 68/1.05-minute period(in GHz).
4. No E-field value is provided for frequencies <1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided.

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4.2 RF Exposure Evaluations

$$S = PG * \text{Duty factor} / 4\pi R^2$$

Note:

P = Peak Power Input to antenna (Watts)

G = Antenna Gain (numeric)

R = distance to the center of radiation of antenna (in meter) = 0.20 m

4.3 RF Exposure test procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

4.4 Test Result of RF Exposure Evaluation

The maximum power density at a distance of 0.2 m is shown as below:

	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Calculated RF Exposure (W/ m ²)	Limit (W/ m ²)
Wifi 2.4g	2442	12.75	0.018836	0.0459146	10
Wifi 5.2g	5180	5.71	0.003724	0.0086090	10
Simultaneous emission				0.0545236	10

*****THE END REPORT*****