

GSM ASSESSMENT REPORT

No. 1-504/07A21rev.1

for the

Hardware Update

of

WAVECOM

GSM 850/900/1800/1900 Wireless CPU

Type New Q24series

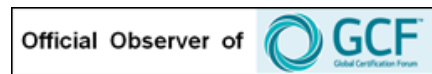
with

Hardware Version: See §4.1
Software Version: See §4.1

This GSM Assessment Report consists of 8 pages
and is related to *CETECOM* GSM TEST REPORTS No. 504/07T18 & 504/07T19

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**CETECOM is accredited
according to
DIN EN ISO/IEC 17025 by:**



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1. General Information

The purpose of a *CETECOM* GSM Assessment Report, which is issued by *CETECOM*'s accredited GSM test laboratory, is to provide a summary statement of conformity for the Equipment under Investigation (EUI) towards all applicable technical requirements as given within the relevant GSM standards.

Another purpose of a *CETECOM* GSM Assessment Report is to take into consideration the applicability of (re)testing in all cases where the EUI or variants thereof have already been tested before, in cases of product updates or upgrades or when accessories with relevance to conformity requirements shall be introduced.

CETECOM GSM Assessment Reports may only be issued for those EUI, modifications thereof, derivatives thereof or accessories, where sufficient technical documentation has been made available to *CETECOM* to allow an overall judgement by taking into consideration all relevant information.

2. Summary of the Assessment

CETECOM has received and verified the client's and/or manufacturer's documentation for the Equipment under Investigation (EUI) and came to the conclusion that - according to this documentation - the EUI

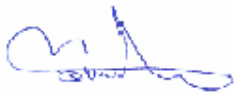
WAVECOM GSM 850/900/1800/1900 Wireless CPU type New Q24series

with the following configuration:

Hardware Version: See §4.1

Software Version: See §4.1

is conformant to all applicable technical requirements as given within the relevant GSM standards and demanded in the applied reference documents.



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(Author of the GSM Assessment Report)



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Deputy Project Leader
(Verification of the GSM Assessment Report)



Dipl.-Ing. Franck Dehour
Test Lab Manager
(Responsible for the GSM Assessment Report)

3. Administrative Data

3.1. Identification of the Testing Laboratory Issuing the GSM Assessment Report

Company Name:	CETECOM SARL
Department:	Mobile Communications
Address:	320, rue Hélène Boucher F-78532 BUC Cedex France
Telephone:	+33 (0) 1.39.24.29.59
Fax:	+33 (0) 1.39.24.29.83
Responsible Test Lab Manager(s):	Dipl.-Ing. Franck DEHOUR

3.2. Organisational Items

CETECOM Reference No.:	504_07
CETECOM Order No.:	5057_07

3.3. Identification of the Client

Company Name:	WAVECOM SA
Address:	3, Esplanade du Foncet 92442 Issy les Moulineaux Cedex France
Contact Person(s):	Carine DIREXEL
Telephone:	+33 1 46 29 42 26
Fax:	+33 1 46 29 08 08

3.4. Identification of the Manufacturer

Company Name:	WAVECOM SA
Address:	3, Esplanade du Foncet 92442 Issy les Moulineaux Cedex France
Contact Person(s):	Carine DIREXEL
Telephone:	+33 1 46 29 42 26
Fax:	+33 1 46 29 08 08

4. Equipment under Investigation (EUI)

4.1. Identification of the Equipment under Investigation

Brand Name:	WAVECOM
Type Name:	New Q24series
Marketing Name:	New Q24series wireless CPU
GSM Frequency Bands:	GSM 850/900/1800/1900
Special Features / Comments:	

Description of the EUI

	Hardware Version
Q24 Classic	400
Q24 Classic HR codec	401
Q24 Classic with SIM holder	402
Q24 Classic HR codec with SIM holder	403
Q24 Plus	404
Q24 Plus HR codec	405
Q24 Plus with SIM holder	406
Q24 Plus HR codec with SIM holder	407
Q24 Extended	408
Q24 Extended HR codec	409
Q24 Auto with MMS	410
Q24 Auto HR codec without RF connector(*)	414
Q24 Plus with UFL on top	415
Q24 Plus with SIM Holder with UFL on top	416

Software Version: Open AT® Firmware 6.57c or Open AT® Firmware 6.57d or Open AT® Firmware 6.57e

(*) initially named **Q24 Auto HR codec with UFL**

4.2. Front View of the Equipment under Investigation



5. Applied Reference Document(s)

The following reference document(s) built the basis for the *CETECOM* assessment of the Equipment under Investigation:

No.	Document Identity	Document Title/Version	Version/ Date
[1]	GCF-CC	Global Certification Forum - Certification Criteria	V3.27.1 (2007-07)

6. Assessment for the Equipment under Investigation (EUI)

6.1. Assessment for Hardware Update(s)

The hardware of the WAVECOM GSM 850/900/1800/1900 Wireless CPU type New Q24series was updated

	From Initial Hardware Version	To New Hardware Version
Q24 Classic	300	400
Q24 Classic HR codec	301	401
Q24 Classic with SIM holder	302	402
Q24 Classic HR codec with SIM holder	303	403
Q24 Plus	304	404
Q24 Plus HR codec	305	405
Q24 Plus with SIM holder	306	406
Q24 Plus HR codec with SIM holder	307	407
Q24 Extended	308	408
Q24 Extended HR codec	309	409
Q24 Auto with MMS	310	410
Q24 Auto HR codec without RF connector	314	414
Q24 Plus with UFL on top	Not applicable	415
Q24 Plus with SIM Holder with UFL on top	Not applicable	416

The Hardware update documentation received from the client and/or manufacturer (see documentation: Q24NG_HW modifications description_v5) states that the implemented hardware update modifications have impact on the EUI's conformity towards the applicable technical GSM requirements. *CETECOM* checked the documentation and came to the conclusion that conformity of the EUI with the above mentioned final hardware version can be presumed with partial additional retesting.

All recommended tests have been performed at *CETECOM*'s (own and/or subcontracted) accredited GSM test laboratories.

Tests have been run on two representative equipment of the wireless CPU family (Q24 Plus with SIM holder & Q24 Classic with SIM holder) without any impact on the results. This statement is based on the fact that the wireless CPU family shares the same Radio Hardware.

Detailed results are given in the related *CETECOM* GSM Test Reports No. 504/07T18 & 504/07T19.

CETECOM came to the conclusion that conformity of the EUI with the above mentioned final hardware version can be presumed because the testing did not reveal any errors.

Q24 Plus with UFL on Top (HW:415) and Q24 Plus with SIM Holder with UFL on top (HW:416) are two new members of the New Q24 Series wireless CPU family and are described in documentation: Q24PL007&Q24PL008_description_v2.doc. *CETECOM* checked the documentation and came to the conclusion that conformity of these two EUI with the above mentioned final software & hardware version can be presumed without partial additional retesting.

The EUI's overall conformity towards GCF-CC V3.27.1 is based on the previous conformity of the initial SW version Open AT[®] firmware 6.57e as stated in *CETECOM*'s assessment report: 1-504_07A18.

Conformity of SW versions Open AT[®] firmware 6.57c and Open AT[®] firmware 6.57d towards GCF-CC V3.27.1 is based on the fact that no complementary test appeared from initial conformity to GCF-CC V3.25.0 as stated in *CETECOM*'s assessment reports: 1-504_07A10 and 1-504_07A12.