



# 6.57d Open AT<sup>®</sup> FW Release Note

Reference: **WM\_DEV\_OAT\_DVD\_307**

Revision: **001**

Date: **June 20<sup>th</sup>, 2007**



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## ***657d09gg.v13***

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## Document History


Level	Date	List of revisions	
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# 1 Introduction

## 1.1 Scope of this Document

The scope of this document is the **6.57d Open AT® FW** release description for Wireless CPU® new **Q24 series (Q24 Classic, Q24 Plus, Q24 Extended and Q24 Auto), Q2406B, Q2426B and Q2501B** series.

## 1.2 Audience for this Document

This Release note may be distributed to all direct and indirect customers and will be posted on the corporate web site under the Support/Private area.

## 1.3 Release Feature List

### 1.3.1 Main Features Reminder

Main Features list	FW version
	6.57d
Multiple UART management	X
Extended SMS Storage: up to 99 in Flash	X
Extended Phone Book Management (Name, 5 numbers, address, e-mail, group)	X
Low Power consumption for the Wireless CPU® with disconnected mode (Radio and protocol stack off: but Open AT® Application running)	X
Interruption PIN Management	X
GPS Management (Q2501B only)	X
Extended characters	X
SIM Speed Enhancement default activation	X
Specific Country Lock implementation	X
Activation of battery charging on Q2501B	X
Long phonebook numbers management	X
Update of AT+WTONE (2 frequencies allowed)	X
STK Setup Call function	X
SPI Management	X
Interface change : AT+WMFM	X
Over The Air firmware upgrade capability	X

Main Features list	FW version
	6.57d
Fast Charging Mode	X
Control +CSQ unsolicited response frequency	X
Control +WBCI unsolicited response frequency	X
GSM 27.010 multiplexing on UART1 or UART2	X
Easy Data Logging	X
Bluetooth SAP Client	X
Open AT® MIPS Enhancement	X
New Q24 series Wireless CPU® management	X
ENS (Enhanced Network Selection)	X
7 Cells Timing Advance	X
Open® AT GTI (Open AT® Plug-In)	X
I2C hard	X
Management SIM 1,8/3/5V	X
Wavecom TCP/IP and Internet Protocol Plug-Ins Compatibility	X
SIM holder	X
DAC management API for Q2501B Wireless CPU®	X

### 1.3.2 New Key Features

None.

### 1.4 Important Upgrade Information

To upgrade from versions before X5x (X41b, X43), it is **MANDATORY** to follow the procedure as explained in the Chapter below for Xmodem procedure and Chapter below for DWLWin procedure.

### 1.5 Dedicated Versions for Specific Markets

#### 1.5.1 New Product Introduction

For specific market requirements, additional “country dedicated” of Wireless CPU® versions have been launched.

#### 1.5.2 Dedicated Version

As these products are tailored for dedicated countries, they are locked to only function with the selected countries available carriers. These products will not be compatible with the previous FW versions on the branch (refer to Chapter below). Obviously Wavecom will perform maintenance on these products in the same way as it has done on other products.



### **1.5.3 Storage & Marking**

For dedicated countries versions, the FW Configuration of this version includes the mention "CCx" in the Product Code file, where x indicates the Country.

The FW configuration will only appear on the pizza box. Special attention is required to manage the storage of this FW configuration as it is the only way to distinguish the product.

### **1.5.4 Availability**

FW versions available on the Wavecom web site are only for no-dedicated products.

In order to obtain Firmware versions for updating the products dedicated to specific countries, contact your Wavecom technical support.

### **1.5.5 Warning**

Standard 6.57d firmware not tuned for dedicated countries must not be used on Wireless CPU® that are dedicated to a specific country, due to incompatibility occurs. In this case, the message BAD SOFTWARE is displayed (refer to the "AT Command Interface Guide" for more information on this message). This can be rectified by re-downloading a compatible version.

### **1.5.6 Firmware Behavior**

The specific country lock feature is aimed at locking a Wireless CPU® use to a pre-determined list of countries.

⇒ The use of Wireless CPU® for no-allowed countries is forbidden. If this is attempted, the message "**SIM NOT ALLOWED FOR THIS MODULE**" is sent, the Wireless CPU® reset and AT SIM commands are no possible.

⇒ Wireless CPU® upgrade by using a specific country lock version is irreversible. Effectively, all Wireless CPU® upgrades performed by using such a version cannot use previous firmware versions. If this is attempted, a message "**BAD SOFTWARE**" will be displayed.

## 2 Related Documents

[1]	AT Commands Interface Guide for revision 6.57c	WM_ASW_OAT_UGD_00044-005
[2]	Specific Bluetooth AT Commands Interface Guide	WM_ASW_BLU_UGD_001
[3]	Q2501 : Specific GPS AT commands Interface Guide (X55)	WM_RNASW_Q2501_UGD_001

### **3 Abbreviations and Definitions**

STK : SIM Toolkit  
UGD: User Guide  
WM : Wavecom  
FW : Firmware

## 4 Hardware Compatibility

### 4.1 Wireless CPU® Compatibility

6.57d Open AT® Firmware Version	Wireless CPU® compatibility list
6.57d	New Q24 series Q2406B Q2426B Q2501B

### 4.2 Wireless CPU® Description

Wireless CPU®	Description	OneC AMR	Flash size (Mb)	RAM size (Mb)	UFL	MMS	SIM Holder	Gps	Gsm 850	Gsm 1900	Gsm 900	Gsm 1800	Gprs
Q2406B	Q2406B	N	32	4	N	N	N	N	N	N	Y	Y	Y
Q2426B	Q2426B	Y	32	4	N	N	N	N	Y	Y	N	N	Y
Q2501B	Q2501B	N	32	4	N	N	N	Y	N	N	Y	Y	Y
Q24CL001	Q24 Classic	Y	32	16	N	N	N	N	Y	Y	Y	Y	N
Q24CL002	Q24 Classic HR Codec	N	32	16	N	N	N	N	Y	Y	Y	Y	N
Q24CL003	Q24 Classic with SIM holder	Y	32	16	N	N	Y	N	Y	Y	Y	Y	N
Q24CL004	Q24 Classic HR w. SIM holder	N	32	16	N	N	Y	N	Y	Y	Y	Y	N
Q24PL001	Q24 Plus	Y	32	16	N	N	N	N	Y	Y	Y	Y	Y
Q24PL002	Q24 Plus HR codec	N	32	16	N	N	N	N	Y	Y	Y	Y	Y
Q24PL003	Q24 Plus with Sim holder	Y	32	16	N	N	Y	N	Y	Y	Y	Y	Y
Q24PL004	Q24 Plus HR w. Sim holder	N	32	16	N	N	Y	N	Y	Y	Y	Y	Y
Q24PL005	Q24 Plus AMR dual-band US	Y	32	16	N	N	N	N	Y	Y	N	N	Y
Q24PL006	Q24 Plus w. Sim hold dual-band US	Y	32	16	N	N	Y	N	Y	Y	N	N	Y
Q24EX001	Q24 Extended	Y	32	4	N	N	N	N	Y	Y	Y	Y	Y
Q24EX002	Q24 Extended HR	N	32	4	N	N	N	N	Y	Y	Y	Y	Y
Q24AU001	Q24 Auto with MMS	Y	32	4	N	Y	N	N	Y	Y	Y	Y	Y
Q24AU003	Q24 Auto with MMS	N	32	4	N	Y	N	N	Y	Y	Y	Y	Y

## 5 Firmware Release Description

### 5.1 Release Identification

New Q24, Q2406B, Q2426B, Q2501B - Series	
Date of generation	May 29, 2007
Firmware identification	657d09gm.Q24CL001
	657d09gm.Q24CL002
	657d09gm.Q24CL003
	657d09gm.Q24CL004
	657d09gg.Q24PL001
	657d09gg.Q24PL002
	657d09gg.Q24PL003
	657d09gg.Q24PL004
	657d09gg.Q24PL005
	657d09gg.Q24PL006
	657d09gg.Q2501B
	657d09gg.Q2406B
	657d09gg.Q2426B
	657d09gg.Q24EX001
	657d09gg.Q24EX002
	657d09gg.Q24AU001
657d09gg.Q24AU002	
657d09gg.Q24AU003	
IMEISV	32
Checksum	0x83 BF 2D 15
Open AT® OS version	V3.13
Xmodem downloader	V2.1C
Previous Official Release on the Branch	6.57c

### 5.2 Released Files & Download Processes

This section describes the files that need to be downloaded on the Wireless CPU® either with DwiWin tool or with HyperTerminal software.

## 5.2.1 X-Modem Download Mode

### 5.2.1.1 X-Modem configuration required for download

In order to download the FW by using the X-Modem protocol, the following configurations and conditions have to be set:

- Create an Hyper Terminal connection on COM port with following parameters:
  - *Bit/Second*                    **115200**
  - *Data Bit*                        **8**
  - *Parity*                            **None**
  - *Bit Stop*                        **1**
  - *Flow Control*                **Hardware**
- A version of AT firmware must be already downloaded on the Wireless CPU®

**Warning:** Activating the Hardware Flow Control is mandatory when downloading via X-Modem, otherwise download may fail.

### 5.2.1.2 Common Files required for download

#### 5.2.1.2.1 Upgrade from X.5x versions to 6.57d

The file to download depends on the HW platform. This file has the following name:

- **657d\_full\_<Wireless CPU\_Type>.dwl**

The content of this file is the following:

- 6.57d binary version,
- Common E2P configuration (w.dwl file),
- E2P configuration specific to <Wireless CPU\_Type> Wireless CPU®.

Example: 657d\_full\_q2406b.dwl is the file to download on a Wireless CPU® Q2406B.

#### 5.2.1.2.2 Upgrade from X.4x versions to 6.57d

To upgrade from versions before X5x (X41b, X43), it is **MANDATORY** to download the following file instead of *657d\_full\_<Wireless CPU\_Type>.dwl*:

- **657d\_full\_A&D\_init\_<Wireless CPU\_Type>.dwl**

This file includes the file **dota.dwl** which initializes the DOTA memory parameters.

If this file is not used, the Wireless CPU® may fall in a wrong state, which is indicated by the error "Fault 04". To recover from this state, it is **MANDATORY** to use the DWLWin procedure (see Chapter 5.2.2.5).

For other upgrade procedures, the file **657d\_full\_A&D\_init\_<Wireless CPU\_Type>.dwl** must **NOT** be used, otherwise data stored in the DOTA memory may be erased.



### 5.2.1.3 Download procedure

The following procedure has to be performed in order to download the FW in the Wireless CPU®:

- Connect the Starter Kit on this COM port and start the Wireless CPU®.
- Enter "at<CR>" on the Hyper Terminal windows. Wireless CPU® has to answer:  
"OK"
- Check the current downloader (dwl) on the Wireless CPU® side. It must be the same or compatible to the embedded one in the new binary (see the Xmodem downloader version in the table paragraph 5.1).

**Note:** To recall the current dwl version, enter "at+wdwl?<CR>" on the Hyper terminal. The Wireless CPU® answers:

"+WDWL: V<downloader version>"

If existing downloader is not the good one, the new downloader has to be reloaded first. In order to download it, use the following process and select "dwl.dwl" as file to download. When download is completed and the Wireless CPU® has been reset, repeat the following procedure to download the new AT binary.

- Enter "at+wdwl<CR>" to start the download. Wireless CPU® has to answer:

"+WDWL: 0  
|||||....."

- Enter menu "Transfer/Send a file"
- Select protocol: "1k Xmodem"
- Select the *dwl* file to download.
- Validate so that the download starts.
- When new characters "||" are received, the download is finished.
- Reset the Wireless CPU® by using the command "AT+CFUN=1" and wait for the "OK" answer.

### 5.2.1.4 Specific GPS Files (only for Q2501B series)

Not applicable (the GPS file can only be downloaded by using the DWLWin tool).

## 5.2.2 DwlWin Download Mode

### 5.2.2.1 DWLWin configuration required for download

Before launching the download process, the DWLWin tool has to be configured as following:

- Select CPU type field according to the Wireless CPU® series:
  - **WISMO 2-3** For Q24X6B series Wireless CPU®
  - **Q2501** For Q2501B Wireless CPU®
  - **Q24NG** For new Q24 series Wireless CPU®
- Select "Erase objects" and "Erase Customization Files" options

### 5.2.2.2 Common Files required for download

#### 5.2.2.2.1 Upgrade from X.5x versions to 6.57d

The E2P parameters to download depend on the HW platform. For this reason, two files must be downloaded for E2P parameters:

- **pro-dwl.wpb** (Binary)
- **w.e2p** (Generic E2P file)
- **<Wireless CPU><FlashType>.e2p** (Wireless CPU® specific E2P file)  
For example: 'q2406b.e2p' for Q2406 Wireless CPU® with flash type B (32/4)

**Warning:** All these files must be downloaded at the same time.

#### 5.2.2.2.2 Upgrade from X.4x versions to 6.57d

To upgrade from versions before X5x (X41b, X43), it is **MANDATORY** to download the file **dota.e2p** in addition to the common files. Hence, the files to download in this case are:

- **pro-dwl.wpb** (Binary)
- **w.e2p** (Generic E2P file)
- **<Wireless CPU><FlashType>.e2p** (Wireless CPU® specific E2P file)
- **dota.e2p**

The file **dota.e2p** initializes the DOTA memory parameters.

If this file is not used, the Wireless CPU® may fall in a wrong state, which is indicated by the error "Fault 04". Downloading **dota.e2p** file only is enough to recover from this state.

For other upgrade procedures, the file **dota.e2p** must **NOT** be used, otherwise data stored in the DOTA memory may be erased.

### 5.2.2.3 Download procedure

Refer to "DWLWin Help" provided in the "DWLWin tool".

#### 5.2.2.4 Specific GPS Files (only for Q2501B series)

The GPS following file must be downloaded for the Q2501B Wireless CPU® version:

- **<CodeSoft>\_300-gps.wpb** (GPS binary file)

**Warning:** According to the restriction ANO36398, after a download session with DWLWin, a hardware reset is mandatory.

### 5.3 Software Tools Version

This section gives the last Wavecom tools versions.

S/W Tools Name	Version
DwlWin Downloader	v.4.1.0.3
Target Monitoring Tool (TMT)	V2.9.4
TMT Workspace	B57w09gx.v13 64k.wks

## 6 Firmware Description

The *Severity* values have the following meaning:

- 1: Critical
- 2: Major
- 3: Minor
- 4: Cosmetic

In the Id column, numbers between the brackets comes from our old issue tracking tool. For old trackers, these numbers might be communicated. The other numbers preceded by 3 letters (CUS, ANO,...) comes from our more recent issue tracking tool. If there is no numbers between brackets, the item was created after the tool change.

### 6.1 Validated Corrections/Improvement

This section gives the list of all corrections or improvements integrated in the 6.57d version from the 6.57c version.

Items are sorted by Impacted Domain and Sub Domain.

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain	Severity
ANO39183 ANO39281 CUS39071	When the location updating procedure has failed (e.g. with cause value = 17 Network failure) and T3212 is running, the Wireless CPU® does not reselect the HPLMN on HPLMN search expiry.	GSM	MM	1

### 6.2 Other Interface Changes

None.

### 6.3 New Features

None.

### 6.4 Additional Information

None.

### 6.5 Certification Compliance

All the platforms are compliant to R&TTE EN 301 419-1 v4.1.1 and EN 301 511 v7.0.1.

### 6.5.1 GCF-CC & PTCRB

The following table sums up the certifications passed for this firmware version or the last version that obtained a certificate.

	GCF-CC / WM FW	PTCRB / WM FW
Q2406B	v3.25.0 / 6.57c	-
Q2426B	-	V3.11.0 / 6.57d
Q2501B	v3.25.0 / 6.57c	-
Q24CL001	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24CL002	v3.26.0 / 6.57d	-
Q24CL003	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24CL004	v3.26.0 / 6.57d	-
Q24PL001	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24PL002	v3.26.0 / 6.57d	-
Q24PL003	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24PL004	v3.26.0 / 6.57d	-
Q24PL005	-	V3.11.0 / 6.57d
Q24PL006	-	V3.11.0 / 6.57d
Q24EX001	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24EX002	v3.26.0 / 6.57d	-
Q24AU001	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24AU002	v3.26.0 / 6.57d	V3.11.0 / 6.57d
Q24AU003	v3.26.0 / 6.57d	-

## 6.6 Restrictions

This section lists restrictions that must be taken into account regarding the 6.57d firmware.

### 6.6.1 Common to all Wireless CPU®

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
CUS33029 (33081)	AT+WIND command configuration is not the same according to the AT+WOPEN=0/1 state.	AT	ALL
ANO30712 (30764)	When a command is sent several times while the treatment of the first one is not treated and when an unsolicited response is received during this treatment, at the end of the treatment the unsolicited answer is received before the OK of the first command. Normally the unsolicited response has to be returned after.	AT	OTHER
ANO30923 (30975)	A GPRS connection is performed by an external application, if an Open AT® application uses adl_atCmdCreate on the same port, the CONNECT response is not detected and the command stack is blocked on this port. A full command stack leads to a reset.	AT	OTHER
ANO31028 (31080)	Autobauding is not able to resynchronize with the modem after a NO CARRIER response is received after releasing an active GSM data call.	AT	OTHER
ANO31444 (31496)	When the Wireless CPU® is reset after setting the GPIOs configurations, no response is received from the Wireless CPU® and Wireless CPU® hangs.	AT	OTHER

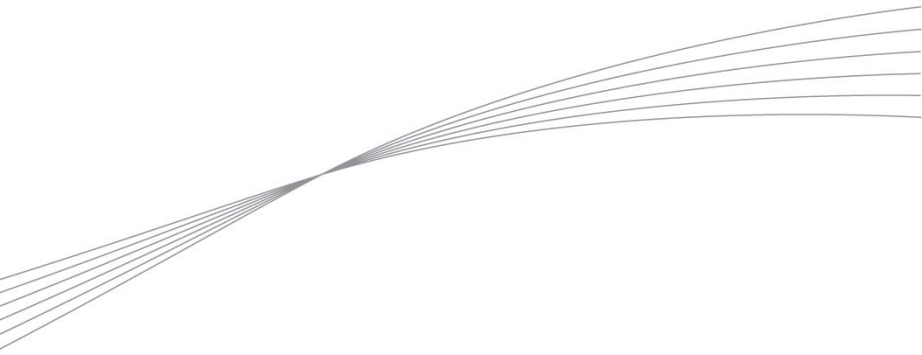
Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
ANO33970 (34022)	Wireless CPU® resets when DTR is toggled from logical CMUX port and autodial is enabled	AT	OTHER
ANO38727	When the Voice Mail indicator is indicated for the second line (ALS feature), the +WVMI indication is wrong and the SIM file is not well updated.	AT	OTHER
ANO38733	The Wireless CPU® behaviour is not correct when a voice mail indication using the UDHI method is received.	AT	OTHER
CUS38817	When 7E1 framing is used at 14400 bauds, the CONNECT string is received in a wrong format.	AT	OTHER
ANO29232 (29284)	When ME phonebook is full and SIM phonebook has 127 entries, Wireless CPU® resets immediately after entering the PIN code.	AT	PHONEBOOK
ANO30865 (30917)	At low speed (+IPR: 1200), when several phonebook entries are read, some characters are missing. All entries should be well returned by the Wireless CPU®.	AT	PHONEBOOK
ANO38310	When user search an entry in UCS2 format with +CPBF command, a watchdog reset may occur.	AT	PHONEBOOK
ANO38811	When a phonebook entry is stored using +CPBW command in a SIM where the alpha Id of a phonebook entry is more than 54 characters, the Wireless CPU® resets. This issue only occurs with big SIM (full options and features)	AT	PHONEBOOK
ANO30122 (30174)	During sending several SMS in the same radio path, the Wireless CPU® makes a reset	AT	SMS
ANO38375	If a SMS is stored in flash memory in Text mode (AT+CMGF=1), using UCS2 character set (AT+CSMP=1,167,0,8 for example), when the SMS is sent, the Wireless CPU® resets systematically.	AT	SMS
ANO38299	When OPL or/and PNN SIM files are updated by a SMS PP Data Download, the refresh is not handled and no indication is returned by the Wireless CPU®. The Refresh should be handled, the +STIN indication should be returned and the updates should be taken into account.	AT	STK
CUS38497	In a SIM Tool Kit Session, when a GET INPUT proactive command is sent by the SIM to the Wireless CPU® with a Text String field present but with an empty text and a Default Text field present, the Wireless CPU® makes a reset when the +STGI is returned.	AT	STK
CUS38866	Pulse charging mode doesn't start when battery voltage reaches DedicatedStartVoltage parameter. This threshold is not taken into account to change charging mode, and, fast charging continues until max voltage.	DEVICE	ADC/BAT
ANO30801 (30853)	Data maybe lost when using TCP/IP services on a cmux logical port	DEVICE	CMUX
ANO30206 (30258)	When using PC cmux driver + a windows modem for application connection instead of direct COM connect to the DLCI, the flow control from PC to DLCI is less reactive and application could miss some data if its Rx buffer is not properly sized	DEVICE	N/A
DF	The UART2 is not available when the GPS internal mode is activated on Q2501B (see AT+WMFM chapter in the AT Command Interface Guide).	DEVICE	V24
CUS39057	When an Open AT® Application is running, on receiving a SMS, "+CMTI" indication is received. No pulse is received on the RI pin to	DEVICE	V24



Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
	indicate that a SMS is received. The problem is not observed without Open AT® Application running		
ANO38380	After a "bad checksum" error during the Xmodem download of a non-compressed file, the downloaded file (firmware or application) is considered as installed. But the binary is corrupted. This issue only occurs in a specific configuration.	DWL	OTHER
CUS37910	If Detach request is received during GMM procedure ( Attach or RAU ), the Wireless CPU® doesn't leave the non drx mode on paging channel. The impact are : - an abnormal power consumption, - a lost of GSM service if some rare cases (e.g. on Celcom network, Wireless CPU® becomes unreachable after 4 hours).	GSM	RR
CUS37616	On a private Korean network, it is observed that the LLC frames received from the network are bigger than what is expected. This results in transfer failures .	GPRS	LLC
CUS38344	GPRS transfer may be impossible in rare cases (depending on network configuration).	GPRS	OTHER
N/A	The latest 6.57 Open AT® FW is only available for New Q24 series Wireless CPU® with Hardware Version above v3.00 (see response of AT+WHWV). It is still available for other Wireless CPU® (Q2406B, Q2501B and Q2426B).	N/A	N/A
N/A	On Wireless CPU® based on One-C HR, algorithm 3 and 6 are available. With Wireless CPU® based on One-C AMR, only algorithm 6 is available.	N/A	N/A
N/A	AT+WSSW returns ".Q2786B" and not ".Q24NG" values.	N/A	N/A
ANO35930	Specific batteries might shut down because the charging duration of pulses are sometimes too long ( 1s in our static configuration) whereas some battery specifications says that maximum pulse should be lower.	OTHER	OTHER
ANO36398	No response after AT+CFUN=1, after a download session with DwlWin. Need a hardware reset	SYS	OTHER

### 6.6.2 Specific to M1306B Modem

Id	Description (What / When)	Impacted Domain	Impacted Sub Domain
ANO31444 (31496)	When the modem is reset after setting the GPIOs configurations by using the command AT+WIOM=1023,1023, no response is received from the modem and modem hangs.	AT	OTHER



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