# Quanta LM171/LM171G Test Operation Guide

Version 0.1 Nov. 05, 2013 Michael

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Version	Release Date	Description
0.1	Nov. 05, 2012	1 <sup>st</sup> Test Operation Guide Release

#### **1.** Introduction

This document gives the guidance on how to test Quanta devices.

### **2.** Test Environment

Quanta LM171/LM171G device supports Windows XP, Windows Vista (32 bit), and Windows 7 (32 bit) operating system. It's recommended to install Quanta LM171/LM171G software in Windows 7 32-bit OS.

# 2.1. Uninstallation

In order to install latest version of software, uninstallation of previous version is required, including drivers, connection manager, and corresponding software tools.

# 2.1.1. Windows 7 (32 bit)

1. Please click

Start→Programs→Altair Semiconductor→LTE ALT3100→Uninstall



2. Please click "Yes (Y)" button.



- 3. Please click "Uninstall" button.
- 4. Please wait a few seconds to complete uninstallation.

5. Please click "Close" button.

6. Please click "OK" button.



7. Please click

"Start→Programs→Altair Semiconductor→LTE ALT3100→HLVUSB→Uninstall".

- 8. Please click "YES (Y)" button.
- 9. Please reboot your computer after you have completed the uninstallation.

	📗 LTE ALT3100	
	📗 HLVUSB	
	🔲 Image Burn Tool	
	👸 Uninstall	
Windows	Installer	×
	您確定要解除安裝這個產品。 是(Y) 否(N)	嗎?
	是(Y) 否创	

#### 2.2. Installation of drivers

#### 2.2.1. Windows 7 (32 bit)

- 1. Please double clicks on "Altair(Quanta) Tool Package v1.0.0.exe" to start installation.
- 2. Please click "Next >" button.

- 3. Please click "Install" button.
- 4. It will take a few minutes to complete installation.



5. Please click "Next >" button.

- 6. Please check "I accept the terms in the license agreement".
- 7. Please click "Next >" button.

- 8. Please select "Full Installation" type.
- 9. Please click "Next >" button.

10. Please click "Next >" button.



11. Please click "Install" button.

12. Please click "Next >" button.

13. Please click "Finish" button.



14. Please click "Next >" button.



- 15. Please check "I accept the terms in the license agreement".
- 16. Please click "Next >" button.

17. Please click "Install" button.

- Please click "Continue to install driver anyway (I)".
- 19. Please click "Continue to install driver anyway (I)".
- 20. Please click "Continue to install driver anyway (I)".
- 21. Please click "Continue to install driver anyway (I)".
- 22. Please un-check "Launch "Hostless Image Burn"".
- 23. Please click "Finish" button to complete driver installation.

24. Please click "OK" button.

25. Please click "Finish" button.

♥ Windows 無法驗證此驅動程式軟體的發行者         ● 不安裝此驅動程式軟體(N) 定導該檢查執道媒体是否有感用於信候證的更新驅動程式軟體         ● 仍然安裝此驅動程式軟體() 作用書数容供給量確保加減基證面得(2)上級上的驅動程式軟體・不再某他 深意的未臺書數是可能會對您的考驗還成需素或電影症的個人資格。         ● 書譽展詳細資料(0)         ● 書譽展詳細資料(0)         ● Altair HLVUSE - InstallShield Wizard         ● InstallShield Wizard Completed         ● The InstallShield Wizard Has successfully installed Altair HUSS. Click Finish to exit the wizard.         ● Back       Duch         ● Cancel         Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Install Successfully!         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● InstallShield Wizard Completed         ● Install Successfully!         ● InstallShield Wizard Completed         ● Install Successfully!         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard Completed         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard Has successfully installed Altar(Quanta) Tool Package v1.0.0. Click Freich to exit the vizard.	Windows 無法驗證此驅動程式軟體(N) 定要該抽查範違或就是再進用於位裝量的更新驅動程式軟體         ・ 不安裝此驅動程式軟體(N) 定用意致發送集團開始及其重調是立尖道上的驅動程式軟體、 小子安裝比驅動程式軟體(N) 定用意致使影響加強或構善或類態的意味 要求意味者意味」         ・ 仍然安裝比驅動程式軟體(N) 定用意致化影響加強或構善或類態的意味 要求意味。 )         ● B参覺詳細度和(D)         ● Altair HLVUSB - InstallShield Wizard         InstallShield Wizard Completed         The InstallShield Wizard Completed         The InstallShield Wizard Completed         ● Launch 'Hostiess Image Bun'*         ● Launch 'Hostiess Image Bun'*         ● Launch 'Hostiess Image Bun'*         ● Disch Cencel         Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Install Successfully!         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Mater(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● Install Successfully!         ● Altair(Quanta) Tool Package v1.0.0 - InstallShield Wizard         ● InstallShield Wizard Completed         ■ TostalShield Wizard Completed         ■ TostalShield Wizard Completed         ■ TostalShield Wizard Completed         ■ TostalShield Wizard Installed         ■ TostalShield Wizard Completed         ■ TostalShield Wizard Completed         ■ TostalShield Wizard Installed	😵 Windows 安全性	
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- 26. Please plug in Quanta device and please be patient and wait a few minutes to complete driver installation.
- 27. Please click "Close (C)" button.
- 28. Please reset Quanta device (take out and plug in the usb cable), it will take about 50 seconds for Quanta embedded system to be ready.

III 驅動程式軟體安裝		×
裝置驅動程式軟體安裝不成功		
Gadget Serial (COM111) Multifunction Gadget with multiple configurations	➡ 裝置已拔除 ➡ 已可使用	
Remote NDIS based Internet Sharing Device #4	🗸 已可使用	
Gadget Serial (COM112)	🗸 己可使用	
如何處理裝置未正確安裝的問題?		
		關閉(C)

# **3.** Operation of Connection Manager

# 3.1. Windows 7 (32 bit)

# 3.1.1. Basic Configuration

- In order to get information from our embedded connection manager, it's mandatory to configure as the following instructions.
- 2. Please click

Start→Programs→Altair Semiconductor→LTE ALT3100→Connection Manager.

3. Please right click on top of connection manager and select

Options  $\rightarrow$  Device Location  $\rightarrow$  Technician PC.

- 4. Connection manager will pop out window for you to enter IP and port.
- 5. Please enter IP address "10.0.0.1". (see NOTE)
- 6. Please click "OK" button.

NOTE: If you have successfully installed Quanta LM171/LM171G device, the embedded module will generate DHCP server and its IP address is "10.0.0.1". Meanwhile, our Quanta device will get a DHCP address "10.0.0.133" automatically. Altair Semiconductor

( Connection Manager

Offline Logs Playback

Disable Polling

PIN Management

en New RE

Device Location

Upgrade Image

Device Mode

Enter IP and port for remote device:

OK

10.0.0.1

5555

Automatic Connect Mode

Local
 Open Platform

Cancel

Technician PC

Enable Remote Multiple UEs Android Tablet

LTE ALT3100

ADCC

💥 DbgView **Q** MDM

M MsgView

C SmartCLI C Uninstall HLVUSB

x

Enter IP and port

View

Optio

Reset

Quit

IP

Port

Manual PLMN Change to Comn

LTE - Local

SIM State

altain

Auto

7. Please check if connection manager shows device information correctly and the red Altair logo turns into yellow color.



### **3.1.2. Extended Information**

1. Please right click on top of connection manager and select

 $View \rightarrow Extended$  Information.

- 2. Connection manager will pop out "Extended Information" window.
- It's NOT mandatory to set up this "Configuration" tab, connection manager will scan all the supported frequency bands and try to connect to the network.



Extended Information	on		×
Configuration Exte	nded Data	At Commands	
📝 Execute Pre Con	nect Actior	03:	
Pre Connect Action	18:		
DL EARFCN:	5230		
DL Frequency:	751.0	Mhz	
Band:	13		
🔘 None			
Only Set EAR	FCN		
🔵 Only Run Scri	pt		
EARFCN and	Script		
APN #1 Settings	<u>.</u>		
🔲 apn #1: 👖		default	
Authenticati	on:		
🔲 Authenticati	on Host Na	ame:	
APN #2 Settings	5		
📄 apn #2: 🛛 IP		defualt	
🔲 Authenticati	on:		
Authenticati	on Host Na	ame	
nancincan	0111100/100		
Turn On Signs	l Stren oth	Sounds	
		NO GIAG	

4. The "Extended Data" tab shows information of Connection Status, APN, Transmission mode, Bandwidth, DL EARFCN, Band, PLMN and Physical Cell ID and so on.

5. The "At Commands" tab will allow you to send AT Commands sets to configure supported functional parameters or to get supported information you want.

Configuration Extend	led Data At (	Comma	nds	
Information				
Connection Status:	Not conne	cted		
#apn: 1 - PV4:	None			
íPV6:	None			
APN:	None			
Transmission mode:	None			
Band Width	None			
DL FARECN	5230			
DL Frequency:	751 0 Mbz			
Band:	13			
PLMN	None			
Physical Cell ID:	None			
RSRP.	0 dBm			
RSRO	0 dB			
SINR	0 dB			
Connection Time:	00-00-00-0	0		
	00.00.00.0			
-Activity Operator Limitation:	None	1	None	
- Rx/Tx Rate:	0bp/s	1	Obo/s	
Received/Sent:	06	'	Ob	
DL UL				
0.8				
0.6 0.4				
0.2			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	(Max: 00	bp/s) DL: 0	bp/s UL: Obp/s	
tended Informatio	n			
tended Information	n		-	
tended Information Configuration   Extend	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OV	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at oK	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data At (	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend A T Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane- > at at OK	n led Data At	Comme	nds	
tended Information Configuration Extend AT Command Pane- > at at OK	n led Data Att	Comme	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comme	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	
tended Information Configuration Extend AT Command Pane > at at OK	n led Data Att	Comma	nds	Send

### 3.1.3. LTE Manager

1. Please right click on top of connection manager and select

View→LTE Manager.

- 2. Connection manager will pop out a "Supervisor Password" window.
- 3. Please input "123456" and click "OK" button.
- 4. It will pop out a "LTE Manager" window.

Automatic PLN	Change to Comme Options	ercial Mode	
	Help	٢	
Connection Time	Quit		
	onductor		
Supervisor Pa	ssword	and the state	-X.
	usino la	Second Second	
Password is re-	quired to perfo	orm this operat	tion:
***			
	2	2	
		OK	Cancel
	14	-	200 - 201.
Manager			

Extended Information

LTE Manager

.

() LTE - Technician PC

SIM inserted

View

[101/9/20 下午 02:26:01] Initializing Device To TechnitionPC Mode

Manual PLMN

5. LTE Manager shows information about GeneralInfo, LogCreator, Dispatcher, Relay, and GPS Tool.

### 3.1.4. Manual PLMN

1. Please right click on top of connection manager and select

Manual PLMN.

2. Connection manager will pop out a "Plmn Search" window.



3. It's not necessary for you to select PLMN manually if you want to connect to network.

1	Select	Cancel

### 3.1.5. Change to Commercial Mode

1. Please right click on top of connection manager and select

"Change to Commercial Mode".

2. Connection manager will pop out a "User Mode Changed" dialog.

	SIM inserted	Manual PLMN	
Н	Service Area	Change to Commercial Mode	
Ш	Automatic PL	Options	
Ц	C	Help	•
H	Connection Tim	Reset Quit	

3. Please click "YES (Y)" button.

User Mode Chang	ed	X
Card must be re	started to complete	e transition.
Do you wish to r	estart card?	
		( <b>7</b> (N)
	是(1)	

4. Please wait a few seconds for device to be ready.

# 3.1.6. Disable Polling

1. Please right click on top of connection manager and select

"Options→Disable Polling".

2. Connection manager will stop searching for available network.

LTE - Technician     SIM inserte	View Manual PLMN Change to Commercial Mo	• ode		
Automatic F	Options		Disable Polling	
	Help	,	PIN Management	ł
	Reset		Automatic Connect Mode	
Connection T	Quit		Open New RB	
	air		Device Location	F
	niconductor		Upgrade Image	
			Device Mode	×

### 3.1.7. PIN Management

1. Please right click on top of connection manager and select

"Options  $\rightarrow$  PIN Management  $\rightarrow$  PIN Information" to get PIN information.

- 2. Connection manager will pop out "PIN Information" window.
- 3. Please click "OK" button.



PIN Inform	nation	TAXABLE INC.	×
Î	PIN is not in u PIN retry cour PUK retry cou	se. nter: 3 nter: 10	
Connection The Conne	View Manual PLMN Change to Commercial Mode Options Help Reset Quit i r enductor		確定 PIN Information Enable PIN Usage Enter PIN Code Change PIN Code
Plea Pl Ex R Pl	se Enter PIN Co IN is currently loc nter a 4-8 digits fo emaining retries: 1 IN Code	ode ked or the SIM PIN 3 * OK Cance	

4. You also can enable PIN usage by right click on top of connection manager and select

"Options→PIN Management→Enable PIN Usage".

5. Please input correct PIN code and click "OK" button.

#### 3.1.8. Automatic Connect Mode

1. Please right click on top of connection manager and select

"Options→Automatic Connect Mode" to switch connection manager from manual connect mode to automatic connect mode.

2. Connection manager will automatically connect to network.

SIM inserted Service Area	View Manual PLMN Change to Commercial Mode	2		
Automatic PL	Options	•	Disable Polling	
c	Help	•	PIN Management	•
	Reset		Automatic Connect Mode	
Connection 1m	Quit		Open New RB	
dB alto	i r		Device Location	ł
	J		Upgrade Image Device Mode	,

### **3.1.9. Device Location**

- 1. For Quanta hostless device, please use "Technician PC" only.
- 2. Please right click on top of connection manager and select

"Options  $\rightarrow$  Device Location  $\rightarrow$  Technician PC".

- 3. Please set IP address to "10.0.0.1" and click "OK" button.
- 4. Connection manager will get information from Quanta hostless device.



#### 3.1.10. Help

1. Please right click on top of connection manager and select

"Help→About".

- 2. Connection manager will pop out a "LTE Card Info" message box.
- 3. It will show information of IMSI number, IMEI number, Supported Bands, Current firmware version, and System package version.
- 4. Please click "OK" button.

5. Please right click on top of connection manager and select

"Help $\rightarrow$ Show Versions".

- 6. Connection manager will pop out a "Version info" message box.
- 7. It will show information of System release version, SWInfra release version, and Current firmware version.
- 8. Please click "OK" button.



52

•

10 (11)

View

() LTE - Technician P





# 3.1.11. Reset

1. Please right click on top of connection manager and select

"Reset".

2. Connection manager will pop out a "" message box.

		Manual PLMN	ſ
H	Device Not Fo	Change to Commercial Mode	
Н	Automatic PLI	Options	ŀ
Ш	Co	Help	Ě
		Reset	
H	Connection Time	Quit	

# **4.** Diagnostic Tool

#### 4.1. MsgView

1. Please open MsgView by clicking

Start→Programs→Altair Semiconductor→LTE ALT3100→MsgView.



- 2. Please click "Start Logging" button to start message logging.
- 3. Please plug in Quanta device and wait a few seconds for device to be ready.
- 4. Once you find an issue, please stop testing and data logging, please save log file and send it to Quanta.

@ C\ProgramData\WinFormProject\1.0.0\Logs\20120928_112815_logfile.log*           Message Logging         *** < >>		
Timestamp LTA MAC RLC PDCP RRCIPDM NAS	2 2 7 7 7	

#### 4.2. DbgView

1. Please open DbgView by clicking

Start→Programs→Altair Semiconductor→LTE ALT3100→DbgView.

- Altair Semiconductor LTE ALT3100 ADCC Connection Manager DbgView MDM MsgView Offline Logs Playback SmartCLI Minstall HLVUSB Internal Tools
- 2. Please plug in Quanta device and wait a few seconds for device to be ready, and the DbgView will start data logging.
- 3. Please click "Save" button to save log to a file.
- 4. Once you find any issue, please stop testing and data logging, and please send this log file to Quanta.

Eile	Edit Captu	e Options	Comp	outer	Help						
6		(   🥴 🛶	1	Ð	B (		Ą	Ŧ		A	
ŧ	Time	Debug F	rint								1
00 01 02 03 04	上午11:31:31 上午11:31:31 上午11:31:31 上午11:31:31 上午11:31:31	[8796] 13 [8796] 13 [8796] +4 [8796] [8796] 0	14880309 14880309 CEREG: ( K	91,12 91,12 0,0	7.0.0.1 7.0.0.1	UM. UM.	AC,: AC,:	2104 2104	52640 5269	9, DEEUG, "AT command received: anayIndex=59", at_cmd_paser.c., 184 1, INFO, "AT command response:	
05 06 07 08	上午11:31:31 上午11:31:31 上午11:31:31 上午11:31:31	[8796] * [8796] 13 [8796] 13 [8796] 13	, at_cmd_ 34880309 34880309 K	_handle 01 , 12' 01 , 12'	ns.c,6 7.0.0.1 7.0.0.1	52 UMJ UMJ	AC,: AC,:	2109 2109	10560	<ol> <li>NFO , "AT command received : AT", at_fsm_handless.c., 97</li> <li>NFO , "AT command response :</li> </ol>	
09 10 11 12 13	上午113131 上午113131 上午113131 上午113131 上午113131	[8796] " [8796] 1. [8796] 1. [8796] 1. [8796] 1.	at_cmd_ 34880309 34880309 34880309 34880309 34880309 34880309	handle 91,12 91,12 91,12 91,12	ns.c , 6 7.0.0.1 7.0.0.1 7.0.0.1	52 UMJ UMJ UMJ	AC,: AC,: AC,:	2109 2109 2109	25581 2564: 25710	7. INFO., "AT command received: AT+CFUN?", at_fsm_handless.c., 97 0. DEBUG." AT command received: analyticades=55", at_cmd_passer.c., 184 2, INFO, "AT command response :	
14 15 16 17	上午113131 上午113131 上午113131 上午113131 上午113131	[8796] () [8796] () [8796] 1.] [8796] 1.] [8796] 1.]	K , at_cmd_ 34880309 34880309 34880309 34880309	handle 01 , 12' 01 , 12' 01 , 12'	ens.c, 6 7.0.0.1 7.0.0.1 7.0.0.1	52 UMJ UMJ UMJ	AC, AC, AC,	2109 2109 2109	4059 40619 40676	<ol> <li>NFO, "AT command received : AT+CREG?", at fam_handles.c., 97</li> <li>DEBUG.", "AT command received: anaylndez=13", at_ond_paster.c, 184</li> <li>NFO, "AT command response :</li> </ol>	
20 21 22 23 24	上午113131 上午113131 上午113131 上午113131 上午113131 上午113131	[8796] [8796] 0 [8796] 0 [8796] 1 [8796] 1 [8796] 1	K , at_cmd_ 34880309 34880309	, bandle 21 , 12 21 , 12	es.c,6 7.0.0.1, 7.0.0.1	52 UMJ UMJ	AC,: AC,:	2109	5023. 5026.	0, INPO ,"AT command received: AT+OGATT?", at fam_handless.c., 97 8. DEBUG: "AT command received: anaylinder=27", at cond_passer.c., 184	ſ
25 26 27 28 29	上午113131 上午113131 上午113131 上午113131 上午113131	[8796] 1.3 [8796] 1.3 [8796] +/ [8796] 0 [8796] ",	14880309 34880309 CGATT: ( K , at_cmd_	1 , 12 01 , 12 0 _handle	7.0.0.1 7.0.0.1	. UMJ . UMJ 52	AC,: AC,:	2109 2109	50261 50314	<ol> <li>DEBUG, "Handling CGATT Effect O, Read 1, Test 0", at_cmd_handlins.c, 4510</li> <li>INFO, "AT command response:</li> </ol>	
•						m					F.

# 5. Firmware Upgrade

#### 5.1. Image Burn Tool

1. Please click

Start→Programs→Altair Semiconductor→LTE ALT3100→HLVUSB→Image Burn Tool.

🗼 Altair Semiconductor
🗼 LTE ALT3100
ADCC
Connection Manager
💥 DbgView
MDM
M MsgView
Offline Logs Playback
🚱 SmartCLI
<b>Q</b> Uninstall
🗼 HLVUSB
💽 Image Burn Tool
🔁 Uninstall
🌗 Internal Tools

- 2. Please check "U-Boot Env".
- 3. Please check "U-Boot".
- 4. Please check "Linux".
- 5. Please check "File System".
- 6. Please check "NVM".
- 7. Please click "Start" button to start firmware upgrade process.



8. Please click "YES (Y)" button.



- 9. It will show message "Waiting for device reset ...".
- 10. The easiest way to reset device is to power cycle device (i.e. to take out and plug in device).
- 11. If you are doing remote firmware upgrade process, please follow the following procedure to reset device.
- 12. Please open device manager and find network interface of Quanta device "Remote NDIS based Internet Sharing Device #".
- 13. Please disable this network interface by right click on it.
- 14. Please enable this device again.
- 15. Please find your Gadget Serial COM port number (for example, COM112).





- 16. Please open COM112 COM port (for example, open it by putty.exe)
- 17. Please select "Serial" as your "Connection type".
- 18. Please fill in "COM112" as your "Serial line".
- 19. Please click "Open" button to set up connection.

- 20. Please enter "at".
- 21. Please check if it responds with "OK".
- 22. Please enter "atz" AT command to reboot Quanta device.

- 23. After Quanta device reboots successfully, the "Image Burn Tool" will start to do firmware upgrade process.
- 24. Please make sure you Quanta device has finished the firmware upgrade process with "---- Finished ----".
- 25. Please close "Image Burn Tool".
- 26. Please take out and plug in Quanta device.



Read: "Protect Flash Bank×#" with timeout 20 ... Done.

---- Finished -----

- 27. In order to recover the original calibration data, please use ADCC tool.
- After the device reboot successfully, please open "Altair Device Control Center" by clicking, Start→Programs→Altair Semiconductor→LTE ALT3100→ADCC.
- 29. Please click "Open Connection" and wait for a few minutes.
- 30. Please click "BSP DB" tab.
- 31. Please select "Boot Parameters (Boot Bp).
- 32. Please select "From File".
- 33. Please click Read DB and find the source DB and click "Open" button to read it.

- 34. Please click "Burn DB" button to start burning.
- 35. Please repeat this procedure to burn the other DBs.



# **6. OMA-DM**

#### 6.1. Mandatory Configuration

- 1. It's necessary to configure Quanta device with the following parameters before you start OMA-DM testing.
- 2. It's mandatory to configure Quanta device with the following parameters if your device is upgraded to new firmware.
- 3. Please make sure that the device is not connected to LTE network (i.e. offline from eNodeB) before you do any configuration.
- 4. Please open connection manager.
- 5. Please enter the following AT commands sequentially (Please refer section 3.1.2).

AT%SETCFG="enable\_test\_mode","0"

AT%SETCFG="vzw\_mode","1"

AT%SETACFG=ecm.Mode.VzwMode,true

#### AT%SETACFG=ecm.Mode.VzwImsTestMode,false

- 6. Please check if it returns "OK".
- 7. Please confirm your configuration by entering the following AT commands sequentially.

#### AT%GETCFG="enable\_test\_mode"

(it shall be "0")

AT%GETCFG="vzw\_mode"

(it shall be "1")

AT%GETACFG=ecm.Mode.VzwMode

(it shall be "true")

AT%GETACFG=ecm.Mode.VzwImsTestMode

(it shall be "false")

Extended Information	2
Configuration Extended Data At Commands	
AT Command Pane	
> AT%SETCFG="enable_test_mode","0" OK	
> AT%SETCFG="vzw_mode","1" OK	
> AT%SETACFG=ecm.Mode.VzwMode,true OK	
> AT%SETACFG=ecm.Mode.VzwImsTestMode,false OK	
> AT%GEICFG="enable_test_mode" 0 OK	
> AT%GETCFG="vzw_mode" 1 OK	
> AT%GETACFG=ecm.Mode.VzwMode true OK	
> AT%GETACFG=ecm.Mode.VzwImsTestMode false OK	
Send	וו
	_

#### 6.2. How to Enable/Disable APN

- 1. Please make sure your device has disconnected from network.
- 2. If you would like to edit APN table, it's necessary to telnet to embedded connection manager. (Please refer to section 3.1.1)
- 3. Please open command console.
- 4. Please key in "telnet 10.0.0.1" and press enter.
- 5. If you failed to telnet 10.0.0.1, please manually set your IP address to 10.0.0.133.
- 6. After successfully telnet to 10.0.0.1, please key in "cat /etc/config/APNTable" and press enter.
- There are 4 APNs in table, and you can see its configurations, including NAME, IP\_Type, P\_CSCF and so on.

- 8. For example, if you would like to disable "VZWIMS" APN, please use the editor tool "vi" to edit this APNTable.
- 9. Therefore, please key in

"vi /etc/config/APNTable" and press enter.



10. Please move cursor to

Option Enabled "true"

11. Please modify this value to "false".

NOTE: If you are not familiar with vi commands, please refer to section 6.6 for more information.

- 12. Please enter "Shift+z" twice to save file.
- 13. Please key in

#### "cat /etc/config/APNTable" and press enter.

14. Please check if "VZWIMS" APN is disabled.

#### **Option Enabled 'false'**

- 15. Please enter "**reboot**" command to reboot device in order to take effect of the configuration.
- 16. You can also follow above procedures to enable/disable other APNs.

NOTE: Please make sure to reboot device in order to take effect of your setting.



#### 6.3. How to Modify OMA-DM Server URL

- 1. Please make sure your device has disconnected from network.
- 2. If you would like to edit OMA-DM server URL, it's necessary to telnet to embedded connection manager. (Please refer to section 3.1.1)
- 3. Please open command console.
- 4. Please key in "telnet 10.0.0.1" and press enter.
- 5. If you failed to telnet 10.0.0.1, please manually set your IP address to 10.0.0.133.
- 6. Please key in

"vi etc/config/service" and press enter.

7. Please modify the server URL to

#### "ivzwmdmii.iot.motive.com"

- 8. Please enter "**Shift+z**" twice to save file.
- 9. Please key in "cat /etc/config/service" and check if the server URL is set up correctly.





10. Please key in

#### "vi etc/config/vdmc/tree-motive.xml"

and press enter.



- 11. Please key in "/https" to search the server URL.
- 12. Please modify the server URL to

#### https://ivzwmdmii.iot.motive.com/southbound-con nector/dm

- 13. Please also check if port number is "443".
- 14. Please enter "**Shift+z**" twice to save file.

### 6.4. How to Online Enable/Disable Internet APN

- 1. Please check if your device has connected to LTE network successfully.
- 2. If you would like to online enable/disable "INTERNET" APN (see NOTE), it's necessary to enter specific AT command.

NOTE: Online enable/disable "INTERNET" APN means it's not mandatory to reboot device to take effect of "INTERNET" APN. Please note that this method is applicable to "INTERNET" APN only, and this configuration will be lost after device reboots.

-		
Configuration	Extended Data   At Commands	
AT Comman	Pane	
> AT OK > at%dpdnac OK	=0	
at%dpdnact=	T	Send

 If you enter "at%dpdnact=0" to disable "INTERNET" APN, the LTE connection will be lost. On the contrary, if you enter "at%dpdnact=1" to enable "INTERNET" APN, device will reconnect to LTE network.

#### 6.5. How to Enable/Disable OMA-DM log

- 1. Please make sure your device has disconnected from network.
- If you would like to enable/disable OMA-DM log, it's necessary to telnet to embedded connection manager. (Please refer to section 3.1.1)
- 3. Please open command console.
- 4. Please key in "telnet 10.0.0.1" and press enter.
- 5. If you failed to telnet 10.0.0.1, please manually set your IP address to 10.0.0.133.
- 6. Please key in

"vi etc/config/service" and press enter.

- 7. Please modify the value of DebugLevel to "**debug**".
- 8. Please enter "**Shift+z**" twice to save file.
- 9. Please enter "**reboot**" command to reboot device.

10. Please enter "cat /tmp/vdm.log" and check OMA-DM logs.







#### 6.6. How to Use VI editor

Please google search "vi manual" or by clicking below URL directly. <u>http://glaciated.org/vi/</u>

#### FCC Regulations:

•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) this device must accept any interference received, including interference that may cause undesired operation.

• This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **RF** Exposure Information

This Modular Approval is limited to OEM installation for mobile and fixed applications only. The antenna installation and operating configurations of this transmitter, including any applicable source-based time-averaging duty factor, antenna gain and cable loss must satisfy MPE categorical Exclusion Requirements of §2.1091.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons, must not be collocated or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

The end user has no manual instructions to remove or install the device and a separate approval is required for all other operating configurations, including portable configurations with respect to 2.1093 and different antenna configurations.

Maximum antenna gain allowed for use with this device is 2.02 dBi.

When the module is installed in the host device, the FCC ID label must be visible through a window on the final device or it must be visible when an access panel, door or cover is easily re-moved. If not, a second label must be placed on the outside of the final device that contains the following text: "Contains FCC ID: HFS-LI170".