Quanta LI170 Test Operation Guide

Version 0.3 Oct. 07, 2012 Winn

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0.1	Oct. 02, 2012	1 st Test Operation Guide Release
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1. Introduction

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

2. Test Environment

Quanta LI170 device supports Windows XP, Windows Vista (32 bit), and Windows 7 (32 bit) operating system. It's recommended to install Quanta LI170 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.

	And Schleonaderor	
	LTE ALT3100	
	HLVUSB	
	📰 Image Burn Tool	
	🔂 Uninstall	
Windo	vs Installer	-
	您確定要解除安裝這個產品嗎?	
	是(Y) 否(U)	

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.



		確定
) Altair(Quanta) Tool P	ackage v1.0.0 - InstallShield Wizard	X
2	InstallShield Wizard Completed The InstallShield Wizard has successfully inst Altair(Quanta) Tool Package v1.0.0. Click Fin wizard.	alled ish to exit the
	< Back Finish	Cancel

- 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.

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 Remote NDIS based Internet Sharing Device #4 Gadget Serial (COM112)	 装置已拔除 ご可使用 ✓ 已可使用 ✓ □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 LI170 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 Sem	iconductor	
	LTE AL	T3100	
	AD	сс	
	Cor	nnection Manager	
	💥 Db	gView	
	🔍 MD	M	
	M Ms	gView	
	O Off	line Logs Playback	
	🥐 Sm	artCLI	
	🔾 Uni	nstall	
	HLA	/USB	
	Inte	ernal Tools	
SIM Statu Bill Statu Device N Automatic Connection 0 dBm	View Manual PLMM Change to Commercial Mod Options Help: Reset Quit Coli f Xenurostbatts)	le Disable Polling PBI Management Automatic Connect Mode Oper/Connect Mode Device Location Upgrade Image Device Mode	Local Open Platform Technician PC Enable Remote Support Multiple UEs Android Tablet
	Enter IP and po	ort	x
	Enter IP and po	ort for remote device:	
	IP 10.0.0	0.1	
	Port 5555		
		OK Can	cel

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.
- 3. 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 Informatic	in	X
Configuration Exter	ded Data At Commands	
👿 Execute Pre Con	nect Actions:	
Pre Connect Action	s:	
DL EARFCN:	5230	
DL Frequency:	751.0 Mhz	
Band:	13	
🔿 None		
Only Set EARI	CN	
Only Run Scri	pt	
EARFCN and	Script	
APN #1 Settings:		
🔲 apn #1: IP	- default	
Authenticati	n:	
Authenticati	on Host Name:	
APN #2 Settings:		
📄 apn #2: IP	defualt	
📃 Authenticati	on:	
📃 Authenticati	on Host Name:	
📄 Tum On Signs	l Strength Sounds	

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.

and the second sec		
Configuration Extend	ed Data At Commands	
Information		
Connection Status:	Not connected	
#apn: 1 - PV4:	None	
iPV6:	None	
APN:	None	
Transmission mode:	None	
Band Width:	None	
DL EARFCN:	5230	
DL Frequency:	751.0 Mhz	
Band:	13	
PLMN:	None	
Physical Cell ID:	None	
RSRP:	0 dBm	
RSRQ:	0 dB	
SINR:	0 dB	
Connection Time:	00:00:00:00	
Activity		
Operator Limitation:	None / No	ne
Rx/Tx Rate:	0bp/s / 0b	p/s
Received/Sent:	06 / 0	Ь
	(Max: Obpic) DL: Obpic UL	Cop's
	(Max: Obp/c) DL: Obp/c UL	Chpis
ended Information	(Max: Obpic) DL: Obpic UL	Copie
ended Information	(Max: Obpic) DL: Obpic UL	Chors
ended Information	Max: object DL: object DL n led Data At Commands	Gbp's
ended Information Configuration Extend AT Command Pane	Max: object DL: object DL n led Data At Commands	Gbp's
ended Information Configuration Extend AT Command Pane	Max: object DL: object DL n led Data At Commands	CDp/s
ended Information Configuration Extend AT Command Pane > at	Max: object DL: object DL n led Data At Commands	Chris
ended Information Configuration Extend AT Command Pane	Max: object DL: object DL n led Data At Commands	CDD'S
ended Information Configuration Extend A T Command Pane > at at OK	Max: object DL: object DL n led Data At Commands	CDD'S
ended Information Configuration Extend A T Command Pane > at at OK	Max: Soper, DL: Soper, DL n led Data At Commands	CDD'S
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	Gbp's
ended Information Configuration Extend AT Command Pane > at at OK	Max: Soper, DL: Soper UL n led Data At Commands	CBp's
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CBp's
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CBp's
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CBp/s
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	- CBp/s
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CBp/s
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CODIS
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CODIS
ended Information configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CODYS
ended Information configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL 1 led Data At Commands	CODYS
ended Information onfiguration Extend AT Command Pane > at at OK	Max: Object DL: Object DL led Data At Commands	CODYS
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CODYS
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL 1 1 1 1 1 1 1 1 1 1 1 1 1	CODYS
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL 1 led Data At Commands	CODYS
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL n led Data At Commands	CBp's
ended Information Configuration Extend AT Command Pane > at at OK	Max: Object DL: Object DL 1 1 1 1 1 1 1 1 1 1 1 1 1	

3.1.3. LTE Manager

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

View \rightarrow 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.



🔘 LTE - Technician PC 💷 💷 💌

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

	-		-	
		OK		Cancel
	_	-	_	
e LogCrestor Dupatcher Relay 0PS To	xal			
01/9/20 下午 02:26 01] Instalming Device	To TechnitonPC Mode			

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.

	View	•
SIM inserted	Manual PLMN	
Service Area	Change to Commercial Mode	
Automatic PLI	Options	
G	Help	
Connection Time	Reset	
	Quit	
	ir	-

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

Plmn Sear	ch	
	and	
	Salact	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	
	Service Area	Change to Commercial Mode	
	Automatic PL	Options	•
	G	Help	,
		Reset	
Н	Connection Tim	Quit	

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

User Mode Chan	ged	
Card must be re	estarted to complete	transition.
Do you wish to	restart card?	
	星の	종(N)
	~=(U)	

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 Commerc	ial Mode		
Automatic F	Options		Disable Polling	
H	Help		PIN Management	
H	Reset		Automatic Connect Mo	de
Connection T:	Quit		Open New RB	
	air		Device Location	•
U dB	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.



IN Information		-	Ex.
PIN is n PIN retr PUK ret	ot in use. y counter: ry counter:	3 10	
TE Technician P View SM inserted Manual PLMN Service Area Automatic PL Options Consection Tim Consection Tim Quit db Consection Tim Consection Consection Tim Consection Consection Consec	rencial Mode	sable Polling N Management utomatic Conrect Mode pen New RB evice Location parade Image evice Mode	PIN Information Enable PIN Usage Enter FIN Code Change PIN Code
Please Enter PIN is curren Enter a 4-8 Remaining a PIN Code	PIN Code ntly locked ligits for the S etries: 3 ****	IM PIN	cel

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	1		
Automatic PL	Options	•	Disable Polling	
c	Help	*	PIN Management	+
	Reset		Automatic Connect Mode	
Connection 1im	Quit		Open New RB	
dB altair			Device Location	+
			Upgrade Image Device Mode	