

LPWA CATM Series Log/Upgrade Tool Manual

LPWA CATM Module Series

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About the Document

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1.0.1	2023-01-05	Linkin WANG	Add driver chapter

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1: Special Marks7



1 Introduction

This document describes how to collect logs and upgrade on different LPWA CAT-M1 BG95Mx & BG96Mx & BG77xA-GL & BG95xA-GL series module.

1.1. Special Marks

Table 1: Special Marks

Mark	Definition
*	Unless otherwise specified, when an asterisk (*) is used after a function, feature, interface, pin name, AT command, or argument, it indicates that the function, feature, interface, pin, AT command, or argument is under development and currently not supported; and the asterisk (*) after a model indicates that the sample of the model is currently unavailable.

2 Environment Setup

2.1. Drivers

BG95Mx & BG96Mx series module driver: BG95Mx&BG96Mx series module driver

BG77xA-GL&BG95xA-GL series module driver: <u>BG77xA-GL&BG95xA-GL series module driver</u>

2.2. Driver Install

Quectel_LTE&5G_Windows_USB_Driver - InstallShield Wizard	
4	Preparing to Install
	Quectel_LTE&5G_Windows_USB_Driver Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Preparing to Install
	Cancel

BG95Mx & BG96Mx series module driver install as below:



Quectel_LTE&5G_Windows_USB_Driver - InstallShield Wizard	
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on Quectel_LTE&5G_Windows_USB_Driver.
	< <u>B</u> ack Finish Cancel

BG77xA-GL&BG95xA-GL series module driver install as below:

Please according your PC's system and select one to install.

x64	
x86	
💐 CP210xVCPInstaller_x64.exe	
≈ CP210xVCPInstaller_x86.exe	
dpinst.xml	
SLAB_License_Agreement_VC	P_Windows.txt
slabvcp.cat	
slabvcp.inf	
🥁 ν6-7-6-driver-release-notes.tx	t



CP210x USB to	UART Bridge Driver Installer	
License Ag	reement	
Ŵ	To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down key.	
	LICENSE AGREEMENT SILICON LABS VCP DRIVER	^
	IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS	
	THIS PRODUCT CONTAINS THE SILICON LABS VCP DRIVER AND INSTALLER PROGRAMS AND OTHER THIRD PARTY	
	SOFTWARE TOGETHER THESE PRODUCTS ARE REFERRED TO AS THE "LICENSED SOFTWARE". USE OF THE LICENSED SOFTWARE IS SUBJECT TO THE TERMS OF THIS LICENSE	~
	accept this agreement <u>Save As</u> <u>Print</u>	
	○ I don't accept this agreement	
	< <u>B</u> ack <u>N</u> ext > 0	Cancel

CP210x USB to UART Bridge Driver Installer			
	Completing the Installation of the CP210x USB to UART Bridge Driver		
	The drivers were successfully in	stalled on this computer.	
	You can now connect your device to this computer. If your device came with instructions, please read them first.		
		1	
	Driver Name	Status	
	✓ Silicon Laboratories Inc	Ready to use	
	< <u>B</u> ack	Finish Cancel	



2.3. Ports Checking

For BG95Mx and BG96Mx series module:

Please refer to *chapter 3.1.1* to setup module and after installed driver you will get these ports in your device manager:





For BG77xA-GL and BG95xA-GL series module:

Please refer to *chapter 3.2.1* to setup module and after installed driver you will get these ports in your device manager:

🜆 Computer Management		- 0	\times
<u>File Action View H</u> elp			
🗢 🔿 🙍 📰 🕎			
🛃 Computer Management (Local	✓ 📇 HF-N-001913A	Actions	
✓	> 🐗 Audio inputs and outputs	Device Manager	
> 🕑 Task Scheduler	> 🗃 Batteries	Derice manager	
> 🛃 Event Viewer	> 🚯 Bluetooth	More Actions	•
> 👸 Shared Folders	> 👰 Cameras		
> 🌺 Local Users and Groups	> 💻 Computer		
> (Performance	> 👝 Disk drives		
📑 Device Manager	> 🏣 Display adapters		
✓ [™] Storage	> 🛺 Human Interface Devices		
📅 Disk Management	> 📷 IDE ATA/ATAPI controllers		
Services and Applications	> 🔤 Keyboards		
	Mice and other pointing devices		
	> Monitors		
	> 🕎 Network adapters		
	V 📮 Ports (COM & LPT)		
	Silicon Labs CP210x USB to UART Bridge (COM10)		
	Silicon Labs CP210x USB to UART Bridge (COM11)		
	USB Serial Port (COM4)		
	> 🚍 Print queues 🛛 🕻 Main UART(AT Command)		
	> Processors		
	> If Security devices		
	> E Sensors		
	> Software components		
	Software devices		
	> 👖 Sound, video and game controllers		
	> Storage controllers		
	> 🚛 System devices		
	> 🦞 Universal Serial Bus controllers		
	> 🌵 USB Connector Managers		
< >			



3 Upgrade Tool

3.1. QFLASH Tool

For QFLASH tool Download here -> QFlash_V6.2

3.2. MDM9205 MDM9206 BGxx Series Module

MDM9205 MDM9206 BGxx series module include: **MDM9205**:

{ BG77 BG95-M1 BG95-M2 BG95-M3 BG95-M4 BG95-M5 BG95-M6 BG95-M8 BG95-MF BG600L-M3 }

MDM9206:

{ BG96-MA BG96-MC }



3.2.1. HW Overview

Here is an example (BG95-M3) on Qualcomm platform.



3.2.2. **QFALSH Introduction**

QFLASH is a tool which using for upgrade *Quectel* series module, and please ask sales or <u>support@quectel.com</u> for latest released tool.



QFlash_V6.0

Quectel_QFlash_User_Guide_V4.4.pdf



3.2.3. FLASHING

- [1] COM Port select DM Port (*Please be sure DM port is available*)
- [2] Baudrate is not fixed, 921600 or any others should be OK
- [3] Load FW: select one file which in <u>BG95M3LAR0xA0x_xx.00x.0x.00x\update\firehose</u> folder
- [4] Click START button.

QFlash_V6.0	_	o x
Help Configuration		
Config COM Port: 14 1 Upgrade Port (DM Port) Load FW Files Baudrate: 921600 9 2 Loading firmware Image: Second		^
Name Location Image: File_Path Image: File_Path Image: prog_firehose_nand_m Image: File_Path Image: prog_mn_nand_p2 Image: File_Path Image: patch_p2K_b128K.xml Image: File_Path Image:		
Do not remove USB or terminate the downloading process before it completes.		
Start 3 START Upgrade		
Ready	CAP	NUM SCRL .::

Once Received **PASS**, Upgrade done.

PASS	69 s
Current QFlash version is the latest!	
Start	



3.3. ALT1250 BG77xA-GL & BG95xA-GL Series Module

ALT1250 series module include: ALT1250: { BG770A-GL BG772A-GL BG950A-GL BG951A-GL BG952A-GL BG953A-GL BG955A-GL*

}

BG951A-GL quite different with other series, Needs flash both modem firmware and GNSS firmware. Please refer to *chapter 3.2.4*.

3.3.1. HW Overview

Here is an example (BG770A-GL) on Sony Platform.





BG77xA-GL Series Module



Here is an example (BG95xA-GL) on Sony Platform.

BG95xA-GL Series Module

3.3.2. **QFLASH** Introduction

Please refer to chapter 2.1.2

3.3.3. FLASHING

- [1] For BG77xA-GL series module, upgrade port is UART_DBG. (Please be sure is available) For new TE-A board upgrade port named <u>UART_DM</u>
- [2] For BG95xA-GL (*except BG951A-GL*) series module, upgrade port is UART_DM.
- [3] Max Baudrate 3M and CTS/RTS must be enabled.
- [4] Load FW, Select *fw.alt* file from firmware folder.



[5] Must **RESET** module once start upgrade.

QFlash_V6.0						_		×
Help Configuration								
- 🔍 🚽								
Config								^
	COM Port:	25	√ <mark>1</mark> < Upgrade	Port(UART_DBG/UA	ART_DM)			
Load FW Files	Baudrate:	3000000	2 Baudrate	e 3M				
4 Loading alt.fw f	file FlowControl:	RTS_CTS	3 FlowCor	trol must be enable	d			
Name	Location							
✓ File_Path	E:\03_Firmware\	01_LPWA\01_	Sony\BG770A-GL\E	G770AGLAAR01A05_	01.003.01.003			
🗹 fw.alt	E:\03_Firmware\	01_LPWA\01_	Sony\BG770A-GL\E	G770AGLAAR01A05_	01.003.01.003\fw.alt			
						-		
Do not remove	e USB or ter	minate	the downlo	bading proce	ess before if	t complete	es	_
Current QFlash version is t	he latest!							
	.		Click STAR	[then RESET modul	e			
	Sta	rt						
								~
Ready						CA	P NUM	SCRL .:

Once report <u>*Please reset*</u>, do RESET module.

Please reset	4 s
Current QFlash version is the latest!	
Start	
Ready CAP	NUM SCRL



Once Received PASS, Upgrade done.

PASS	160) s	
Current QFlash version is the latest!			
Start			~
Ready CAP	NUM S	SCRL	

3.3.4. Special for BG951A-GL module

3.3.4.1. HW Overview







BOOT Switch: HIGH GPS_PWR_EN switch: ON PON_TIRG: HIGH

3.3.4.2. FLASHING

- [1] Both UART_DM and UART_GNSS connected.
- [2] AT+QGPSCFG="GNSS_MODE",2 reboot to take effect.
- [3] UART_DM flashing modem FW, UART_GNSS flashing GNSS FW.
- [4] Switch should be ON/HIGH
- [5] Max Baudrate 3M and CTS/RTS must be enabled.
- [6] Load FW, Select *fw.alt* file from firmware folder.
- [7] Must **RESET** module once start upgrade.
- [8] Check UART_GNSS port must be in H> mode.

How to enter H> mode?

- 1) Module Power ON
- 2) Switch BOOT to HIGH
- 3) Switch GPS_PWR_EN to ON
- 4) Then UART_GNSS should be report H>, and next do upgrade ASAP.

Note: When you loaded BG951A-GL <u>alt.fw</u> file, the GPS port will automatically appear in QFLASH.



QFlash_V6.0											_		×
Help Configuration													
10													
		2 UART	DM										
Config 6 Load alt.fw	file COM Port						_						
	controla.	58	~	GPS Por	rt: 59	_~1	UAF	RT_GNS	s, when s	elect BG9	51A-GL	alt.fw file	from
Load FW Files	Baudrate:	3000000	~ (3 Bau	udrate 3N	л	FW,	Port wi	ll appear	ed autom	atically		
	FlowControl:	RTS CTS	~	wh	han Baud	rata-2N	4 flowe	ontrol n	uct he e	nabled			
					lien bauu	rate-siv	vi, nowo		iusi de e	nabieu			
Name	Location												
✓ File_Path	E:\03_Firmware\	01_LPWA\01	Sony	BG951A	-GL\offica	BG951/	AGLAAR	01A01_0	1.007.01	.007			
✓ fw.alt	E:\03_Firmware\	01_LPWA\01_		BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	.007\fw.alt	t		
RK_03_00	E:\03_Firmware\	01_LPWA\01_	L_Sony	BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	007\RK_0	3_00		
✓ use_bin	E:\03_Firmware\	01_LPWA\01_	L_Sony	BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	007\USER	BIN		
Ebin1	E:\03_Firmware\	01_LPWA\01_	L_Sony	BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	.007\cxd56	505AGF		
Ebin2	E:\03_Firmware\	01_LPWA\01_	L_Sony	BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	.007\cxd56	505AGF		
Ebin3	E:\03_Firmware\	01_LPWA\01_	L_Sony	BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	.007\cxd56	505AGF		
Ebin4	E:\03_Firmware\	01_LPWA\01_	L_Sony	BG951A	-GL\offica	I\BG951/	AGLAAR	01A01_0	1.007.01	.007\cxd56	505AGF		
													_
Do not remove	USB or ter	minate	the	e dow	vnload	ding	ргос	ess t	pefore	e it co	mple	tes	
Current QFlash version is the	atest!						-				-		
													_
	01												
	Sta	rt											
Ready											(SCRL .:

Once Received PASS, Upgrade done.

PASS	160 s
Current QFlash version is the latest!	
Start	v
Ready CAF	NUM SCRL

4 LOG Collecting Tool

4.1. MDM9205 MDM9206 BGxx Series Module

4.1.1. Modem LOG

MDM9205 and MDM9206 collect log tool <u>*QWinLog*</u> Please ask sales/FAE or <u>support@quectel.com</u> for latest log tool.

📿 QWinL	og_V1.8.5.exe
Log	
conf	

4.1.1.1. Pre-Settings

Before Collecting logs, must enable log mode via command:

1] AT+QCFG="DBGC	TL",0 // for mode	m log, optional wher	n collecting DUMP log
------------------	-------------------	----------------------	-----------------------

[2] AT+QCFGEXT="dump",1 // for dump log, optional when collecting modem log

[3] Log Type: QXDM

[4] Log Port: DM port

[5] Log Filter: Select a suitable filter in <u>xxxx\QWinLog_V1.8.5\conf\qual</u> folder.

If command return ERROR means log mode is enabled. [1],[2] can be configured same time.



4.1.1.2. Collecting

QWinLog_V1.8.5 - □ ×	
Settings Action	_
Type: USB&TCP Port OLAN Port	
Port: Quectel USB DM Port (COM20) 2 DM Port Dev detection	
Baudrate: 115200 3 Baudrate 115200 fixed	
Config file: F:\09_LogTools\02_LI5gLfilterLog_48.5\conf\qual\default.cfg	
Log path: F:\09_LogTools\02_LTE\QWinLog_V1.8.5\Lc_5 Default log Save path	
	1
Type: O USB Port O LAN Port	
Port:	
Baudrate: 115200	
Config file: F:\09_LogTools\02_LTE\QWinLog_V1.8.5\conf\asr\default_asr.	
Log path: F:\09_LogTools\02_LTE\QWinLog_V1.8.5\Log	
Start Stop	
Current status: idle	

4.1.2. Dump LOG

Both MDM9205 and MDM9206 use <u>QPST</u> tool to collect DUMP log. Please ask sales/FAE or <u>support@quectel.com</u> for latest released tool.

When module crashed there will be auto automatically generate a DUMP log. This is quite necessary for crash analysis.

4.1.2.1. Collecting When QPST Tool not Opened

And when module happened crash, the AT port will be stuck and only POWER light on, meanwhile both AT/ USB NMEA port will be disappeared.



V 🛱 Ports (COM & LPT)

Quectel USB DM Port (COM42)

🛱 USB Serial Port (COM4)

Then open QPST Tool and do Add New Port, Select DM port.

QPST Configuration (hf-n-001913a)	- 🗆 X	
<u>File</u> <u>Server</u> Start <u>Clients</u> <u>W</u> indow <u>H</u> elp		Add New Port X
Active Phones Ports Active Clients IP Server		Serial/USB Ports Outgoing IP Connections
Port State Label Phone	Link Se	
Enable Benove	Add New Port	Note: The baud rate for the port will be set to 38400 bps DK 3
0 Phones 0 Ports 1 Clients Server Running		

After Click OK, the tool is collecting DUMP log as below:

6	QPST Cor	nfiguration (hf	-n-001913a)		_		×
<u>F</u> i	le <u>S</u> erver	Start <u>C</u> lients	<u>W</u> indow <u>H</u> elp				
1	Active Phones	s Ports Act	tive Clients IP Server				
	Port	State	Label	Phone	Lin	k Se	1
	🖉 сом4	2	COM42	Sahara Memory Dum.	USI	В	
	<					>	
	<u>E</u> nable	Di	sable <u>R</u> emove		Add	New Port	
1 P	hones	1 Ports	1 Clients Serve	r Running			

4.1.2.2. Collecting When QPST Tool Opened

Whon	OPST	tool c	nonod	and	ПΜ	nort	habbe	to	tool	hoforo	dumn	crash	anneared
VVIIEII	QFSI	1001 0	peneu	anu		ρυπ	auueu	ιΟ	1001	Delote	uump	Clasii	appeared

🔥 QPST Con	figuration (hf-n-	001913a)	-	- 🗆	\times
<u>File</u> <u>Server</u>	Start <u>C</u> lients <u>V</u>	<u>/</u> indow <u>H</u> elp			
Active Phones	B Ports Active	Clients IP Server			
Port	State	Label	Phone	Link	Sei
₽ COM42	2 Enabled	COM42	MDM9206 (DEADD00D)	USB	c0l
<					>
Enable	Disabl	e Remove		Add New F	^o ort
1 Phones	1 Ports 1	Clients Server R	Running		

It will be auto automatically generating a DUMP log, there is no need manually add DM port to tool after crashed.

🤹 QPST Cor	figuration (hf-n-()01913a)		- 🗆	\times
<u>File</u> <u>Server</u>	Start <u>C</u> lients <u>W</u>	indow <u>H</u> elp			
Active Phones	B Ports Active	Clients IP Server			
Port	State	Label	Phone	Link	Sei
Д СОМ4 2	2	COM42	Sahara Memory Dum	. USB	c0l
<					>
					_
Enable	Disable	e Remove		Add New F	ort
1 Phones	1 Ports 1	Clients Server	Rupping		

4.1.2.3. DUMP log saved

Currently, when installed QPST with default, the DUMP log will be saved in folder: <u>C:\ProgramData\Qualcomm\QPST\Sahara</u>

Also, you can get dump log via QPST tool quickly button as below:

🛃 QPST Con File Server	nfiguration (hf-n- Start Clients V	001913a) Vindow	1 Help	- 🗆 ×
Active Phones	B Ports Active	Clients	Help Topics Open Log File Directory 2	
Port	State	Labe	Version History(readme.txt)	Link Sei
<u> 🖉 сом</u> 42	2 Enabled	COM	About QPST Configuration	USB c0l
			2	
Enable	Disab	e	Hemove	Add New Port
1 Phones	1 Ports 1	Clients	Server Running	



4.2. ALT1250 BG77xA-GL & BG95xA-GL Series Module

BG77xA-GL& BG95xA-GL series module collect log tool <u>QserialLog</u> Please ask sales/FAE or <u>support@quectel.com</u> for latest log tool.

📙 Log	
📓 Config.ini	
Q QSerialLogTool.exe	

4.2.1. Modem LOG

4.2.1.1. Pre-Settings

Before Collecting logs, must enable debug mode via command:

- [1] AT+QCFGEXT="debug",1 reboot to take effect.
- [2] LOG Port: UART_AUX for FW log.
- [3] LOG Port: UART_DM for SFP log.
- [4] Baudrate: must be 921600.

4.2.1.2. Collecting

You can open two QserialLogTool terminal to collect both FW log and SFP log.

Q QSerialLog	_		×
About			
UART_AUX 2 CFixed:921600 COM Port: 17 ▼ Baudrate: 921600 ▼ StopBits: 1	Parity:	None	•
ByteSize: 8 Flow Control: No Ctrl Flow	0		t
Log Setting		JIAN	
Log Path: F:\09_LogTools\01_Sony1250\Windows\Log\			
Max size of a single log file: 200 M bytes 3 Max size of a single	log		

4.2.2. collectLogs

For BG77xA-GL and BG95xA-GI series module, there is no special tool to collect DUMP log. And currently only manual way to collect dump log.



4.2.2.1. Pre-settings

- [1] Cannot collect modem log and dump log at the same time.
- [2] Dump log will output from UART_DM(UART_DBG) port with baudrate 115200.
- [3] Use terminal tool (e.g QCOM Putty etc) to save output characters.
- [4] Send AT+QCFGEXT="debug",2 the CollectLogs will be output.

4.2.2.2. Collecting

Q QCOM_V1.6			
About			
	Command List -		
COM Port: 58 - Baudrate: 115200 - StopBits: 1 - Parity: None -	🥅 Choose All Commands	HEX	
	1:		\mathbf{V}
ByteSize: 8 - Flow Control: No Ctrl Flow - Close Port	2:		\mathbf{V}
	3:		$\overline{\mathbf{v}}$
[2022-11-24 16:34:30:329] "2": {	4:		$\mathbf{\nabla}$
[2022-11-24_16:34:30:329] "instances": "null"	5:		
[2022-11-24_16:34:30:329] },	6:	- E	~
[2022-11-24_16:34:30:329] "15": {		Г <u>г</u>	V
[2022-11-24_16:34:30:329] "instances": "0"		- E	
[2022-11-24_16:34:30:329] }, [2022-11-24_16:34:30:329] "16": {			
[2022-11-24_16:34:30:329] "instances": "0"			
[2022-11-24_16:34:30:329] },			
[2022-11-24_16:34:30:329] "19": {			
[2022-11-24_16:34:30:350] "instances": "0"		- 2	
[2022-11-24_16:34:30:350] }			<u> </u>
[2022-11-24_16:34:30:350]} [0000-11-04_16:34:30:515]			<u> </u>
[2022-11-24_16:34:30:515] [2022-11-24_16:34:30:515]	15:		
[2022 11 24_10.04.00.010]coap_uma version. 1.0.0	16:		\checkmark
[2022-11-24_16:34:30:515]QGITVER: qgitver:828ee7c026263f8307d05e91c80a81197ee6f20d	17:		
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[2022-11-24_16:34:30:515]radio version: 1.0.0	19:		\mathbf{V}
[2022-11-24_16:34:30:515] Collect Logs - END V	20:		
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Operation	[25: [1	V
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input String.	28:	Г	V
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