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FIBOCOM NL668 AT Commands User Manual_FOTA

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Applicability Type

No.	Type	Note
1	NL668-CN-00	NA
2	NL668-EAU-00	NA
3	NL668-AM-00	NA
4	NL668-EU-00/01/03	NA
5	NL668-JP-00/01	NA
5	NL668-LA-00	NA
6	NL668-CN-80	NA
7	NL652-EU-00	NA

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Versions

Version	Author	Assessor	Approver	Update Date	Description
V1.0.0				2016-12-05	Initial version
V2.0.0				2017-09-19	CBB version
V2.0.1				2018-04-21	Add NL668 serial
V2.0.2				2018-11-12	Add NL668-AM serial and NL668-EU serial
V2.0.3				2018-11-21	Remove the note of MIPCALL
V2.0.4				2019-04-22	Add NL668-EU-03,NL668-CN-80, NL668-JP-00/01,NL668-LA-00 fota function
V2.0.5	He Ruichen	Long Yiliang	Long Yiliang	2019-09-17	Add NL652-EU-00 fota function

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1 FOTA Command

1.1 FOTA Upgrade Command

This section describes the FOTA features. Modem's firmware can be upgraded from the Remote Server by the FOTA process.



Notes:

- The speed of 2G network is slow, it may fail to upgrade when using 2G network. So we recommend to fix the network to the highest-level that the module can support when using this command to upgrade firmware.
- Since ring call may interrupts the upgrade process, so this function must be disabled by using command [AT+GTSET="CALLBREAK",1] before performing the FOTA process. Besides, command [AT+GTSET="GPRSFIRST",1] should be using if the product supports it.

1.2 +GTOTA, FOTA Upgrade

1.2.1 Description

This command is used to start FOTA upgrade process. The firmware data can be downloaded over FTP or HTTP protocol.

1.2.2 Syntax

Command	Possible response(s)
+GTOTA=<type>,<"url">[,<"filename">,<"username">,<"password">]	<p>OK</p> <p>or:</p> <p>+CME ERROR: <err></p> <p>Note: During the firmware downloading, the module will report the following unsolicited report indicating the downloading status:</p> <p>GTOTA DOWNLOAD START</p> <p>GTOTA DOWNLOADING: <percent>%</p>

Command	Possible response(s)
	GTOTA DOWNLOAD COMPLETE
+GTOTA=?	+GTOTA: <type>,<"url">[,<"filename">,<"username">,<"password">] OK

1.2.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of duration
Yes	No	Yes	Yes	< 1s

1.2.4 Defined Values

<type> integer type and range 0-1; Default value is 0.

0 FOTA upgrade through HTTP

1 FOTA upgrade through FTP

<"url"> string type; Address of HTTP or FTP server. The maximum length is 255 bytes.

<"filename"> string type; The file name of OTA package. The maximum length is 255 bytes.

<"username"> string type; User name for FTP server. The maximum length is 255 bytes.

<"password"> string type; FTP password for <"username">. The maximum length is 255 bytes.



Note:

- When <type> is 0, parameters <"filename">, <"username">, and <"password"> can't be used.
When <type> is 1, parameters <"filename">, <"username">, and <"password"> must be given.
- When using HTTP, the file name and path of the OTA package must be included in <"URL">.
When using FTP, <"URL"> is just the address of FTP server, while filename is given by parameter <"filename">.
- The file path may also be included to <"filename"> when needed.