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FIBOCOM AT Commands

User Manual_ECALL

Version: V1.1.2

Date: 2019-08-16



Applicability Type

No.	Type	Note
1	NL668-EAU-00	NA
2	NL668-EU-00/01	NA

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Versions

Version	Author	Assessor	Approver	Update Date	Description
V1.0.0				2013-11-18	Initial version
V1.0.1				2014-08-07	Extend +ECMOD command Add pull type in <type> field of +ECMOD command Add +ECEXIT command
V1.0.2				2014-12-26	Update company name as Shenzhen Fibocom Wireless co., LTD
V1.0.3				2015-08-24	Update Fibocom logo
V1.0.4				2018-04-04	Use new format for all AT commands, Add +ECSTART, +ECSTAT
V1.1.0				2018-12-26	Add +ECCONF, +ECCALL and modify some descriptions
V1.1.1	Liu Jie	Xie Xiangcun	Xie Xiangcun	2018-12-26	Add some descriptions for NL668
V1.1.2	Longyiliang			2019-08-16	Modify applicable model

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1 ECALL Commands

1.1 ECALL Commands

1.1.1 +ECMOD, Set ECALL Working Mode

1.1.1.1 Description

This command is used to set ECALL working mode .

1.1.1.2 Syntax

Command	Response/Action
+ECMOD=<mode>[,<type>]	OK Or ERROR
+ECMOD?	+ECMOD: <mode>,<type> OK
+ECMOD=?	+ECMOD: (list of supported <mode>s) [,list of supported <type>s] OK

1.1.1.3 Attributes

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

1.1.1.4 Defined Values

<mode>: integer type and range: 0-1

- 0 Set device working on IVS mode(default)
- 1 Set device working on PSAP mode

<type>: integer type and range: 0-1

- 0 Push (default)

1 Pull



NOTE:

NL668 only supports IVS mode and Push type.

1.1.2 +ECDATA, Set MSD Data

1.1.2.1 Description

This command is used to set MSD data.

1.1.2.2 Syntax

Command	Response/Action
+ECDATA=<"data">	OK Or ERROR
+ECDATA=?	+ECDATA: "data" OK

1.1.2.3 Attributes

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

1.1.2.4 Defined Values

<data>: string type with hexadecimal character format; 280 hex characters stand for 140 bytes MSD data.

1.1.3 +ECCONF, Config Parameters of ECALL

1.1.3.1 Description

This command is used to config ECALL parameters .

1.1.3.2 Syntax

Command	Response/Action
+ECCONF=<T5>,<T6>,<T7>	OK Or ERROR
+ECCONF?	+ECCONF: <T5>,<T6>,<T7> OK
+ECCONF=?	+ECCONF: (range of <T5>),(range of <T6>),(range of <T7>) OK

1.1.3.3 Attributes

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

1.1.3.4 Defined Values

<T5>: interger type and range: 2-20; IVS wait for SEND MSD period (in seconds). Default value is 5.

<T6>: interger type and range: 2-20; IVS wait for AL-ACK period (in seconds). Default value is 5.

<T7>: interger type and range: 20-200; IVS MSD maximum transmission time (in seconds). Default value is 20.

1.1.4 +ECCALL, Originate/Stop the ECALL

1.1.4.1 Description

This command is used to originate and stop the ECALL .

1.1.4.2 Syntax

Command	Response/Action
+ECCALL=<ecall_session>[,<type_of_call>,<activation_type>[,<dial_num>]]	OK

Command	Response/Action
+ECCALL=?	+ECCALL: (0-1),(0-1),(0-1),<dial_num> OK

1.1.4.3 Attributes

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

1.1.4.4 Defined Values

<ecall_session>: integer type and range: 0-1

- 0 Stop ECALL
- 1 Originate ECALL

<type_of_call>: integer type and range: 0-1

- 0 Test ECALL
- 1 Emergency ECALL

<activation_type>: integer type and range: 0-1

- 0 Manual initiated ECALL
- 1 Automatic initiated ECALL

<dial_num>: string type; Test ECALL dial number (in quotation marks). It's only allowed when type_of_call is set to 0.

1.1.5 +ECSTART, Transfer the MSD

1.1.5.1 Description

This command is used to transfer the MSD.

1.1.5.2 Syntax

Command	Response/Action
AT+ECSTART	OK Or ERROR

1.1.5.3 Attributes

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

1.1.5.4 Defined Values

None



NOTE:

NL668 use this command to push MSD to PSAP. It doesn't work if ECALL has not established or ECALL is in MSD transmitting status.

1.1.6 +EEXIT, Exit ECALL Working Mode

1.1.6.1 Description

This command is used to exit ECALL mode.

1.1.6.2 Syntax

command	Response/Action
AT+EEXIT	OK Or ERROR

1.1.6.3 Attributes

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

1.1.6.4 Defined Values

None



NOTE:

AT+EEXIT always returns OK and doesn't take effect for NL668. AT+ECCALL=0 can be used to terminate ECALL.

1.1.7 +ECSTAT, Status Report

1.1.7.1 Description

This unsolicited event is sent to the terminal indicating a change in status. Currently there is one possible sources of failure, timeout.

1.1.7.2 Syntax

Command	Response/Action
Unsolicited Response	+ECSTAT:<Status>,<n2>

1.1.7.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of duration
NA	NA	NA	NA	NA

1.1.7.4 Defined Values

<Status>: integer type and range 0-1

- 0 operation success.
- 1 operation fail.

<n2>: string type; ECALL session status or specific reasons for failure, for example timeout.

“CALL CONNECT”

“TRANSMIT START”

“TRANSMIT COMPLETE”

“TIMEOUT”

