



Perfect Wireless Experience  
完美无线体验

---

# 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

FIBOCOM  
Confidential



## Copyright

Copyright ©2019 Fibocom Wireless Inc . All rights reserved.

Without the prior written permission of the copyright holder, any company or individual is prohibited to excerpt, copy any part of or the entire document, or transmit the document in any form.

## Attention

The document is subject to update from time to time owing to the product version upgrade or other reasons. Unless otherwise specified, the document only serves as the user guide. All the statements, information and suggestions contained in the document do not constitute any explicit or implicit guarantee.

## Trademark



The trademark is registered and owned by Fibocom Wireless Inc.

## 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 +EEXIT 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 +ECONF, +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

# Contents

<b>1</b>	<b>ECALL Commands.....</b>	<b>6</b>
1.1	ECALL Commands.....	6
1.1.1	+ECMOD, Set ECALL Working Mode .....	6
1.1.2	+ECDATA, Set MSD Data.....	7
1.1.3	+ECCONF, Config Parameters of ECALL.....	7
1.1.4	+ECCALL, Originate/Stop the ECALL .....	8
1.1.5	+ECSTART, Transfer the MSD.....	9
1.1.6	+ECEXIT, Exit ECALL Working Mode .....	10
1.1.7	+ECSTAT, Status Report.....	11

FIBOCOM  
Confidential

# 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)


**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”