

FIBOCOM L610 Series

AT Commands_eCloud

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Applicability Type

NO.	Product Model	Description
1	L610 Series	NA

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Change History

Version	Author	Assessor	Approver	Update date	Description
V1.0.1	Wang Bing	Ma Menghan	Wang Hailiang	2020-06-13	Standardized format
V1.0.0	Wang Bing	Shu Min	Deng Libin	2020-02-10	Initial version

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1 eCloud

1.1 +GTLWCTNOTIFY, LwM2M Client notification

1.1.1 Description

Notify the device's status.

1.1.2 Syntax

Syntax	Response/Action
Unsolicited Response	+GTLWCTNOTIFY: <msg>

1.1.3 Attributes

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

1.1.4 Defined Values

<msg>: The msg should be printable ASCII characters, string type and the range of the topic length is 1-255 string.

msg	NOTE
register success	Registered to eCloud success event.
register failed	Registered to eCloud failed event.
register update success	Send update message to eCloud success event.
register update failed	Send update message to eCloud fail event
observe success	Received observer message from eCloud.
notify success	Send message to eCloud success event.
notify failed	Send message to eCloud fail event.
deregister success	Deregistered to eCloud success event
deregister failed	Deregistered to eCloud failed event
server exception	Received RST message from CT IOT server

1.2 +GTLWCTOPEN, LwM2M Client registration

1.2.1 Description

Register to CT (China Telecom) IOT platform.

1.2.2 Syntax

Syntax	Response/Action
AT+GTLWCTOPEN=<RemoteIP/URL>,<RemotePort>,<EndPoint>,<LifeTime>[,<Pskid>,<Psk>]	OK +GTLWCTNOTIFY: register success or ERROR
AT+GTLWCTOPEN?	ERROR
AT+GTLWCTOPEN=?	ERROR

1.2.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
No	No	No	Yes	< 100s

1.2.4 Defined Values

<Remote IP/URL>: string type(in quotation marks). IP: IP of the remote site in the format "AAA.BBB.CCC.DDD". The range of each octet is 1-255. Value can be written in 1, 2, or 3 digits. Host name: of remote site. The host-name convention should meet the rules as describe in RFC-1035 section: 2.3 Conventions. The maximum length is 255 characters.

<Remote Port>: Port of remote site.

Port range: 1-65535 (decimal digits) for outgoing connection.

Port 0 for incoming connection.

<EndPoint>: string type (in quotation marks). Endpoint name, device IMEI number. the maximum length (30 characters).

<LifeTime>: integer, the range is 20-4294967295.Lifetime, the time interval to send "update registration" to CT IOT platform.

<Pskid>: String type. use in DTLS. When using this parameter, Psk must exist. DTLS will be used when setting Pskid and Psk

<Psk>: String type, use in DTLS. character must be hexadecimal number. The length of string must be an even number and can only be greater than or equal to 8, less than or equal to 32.

1.3 +GTLWCTDEL, LwM2M Client de-registration

1.3.1 Description

Deregister from CT IOT platform.

1.3.2 Syntax

Syntax	Response/Action
AT+GTLWCTDEL	OK +GTLWCTNOTIFY: deregister success or ERROR
AT+GTLWCTDEL?	ERROR
AT+GTLWCTDEL=?	ERROR

1.3.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
No	No	No	Yes	< 100s

1.3.4 Defined Values

NA

1.4 +GTLWCTSEND, LwM2M Client send data

1.4.1 Description

Send data to CT IOT platform.

1.4.2 Syntax

Syntax	Response/Action
AT+GTLWCTSEND=<"data">	OK

Syntax	Response/Action
[,<mode>]	+GTLWCTNOTIFY: notify success or ERROR
AT+GTLWCTSEND?	ERROR
AT+GTLWCTSEND=?	ERROR

1.4.3 Attributes

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

1.4.4 Defined Values

<data>: HEX string (in quotation marks), should be even, the supported characters are 0~9, A~F, a~f.
maximum length is 1024 characters.

<mode>: Data transmission mode, the definition is as follows:

0: Send NON message, Default value is 0.

1: Send CON message

1.5 +GTLWCTRECV, LwM2M Client receive data

1.5.1 Description

Receive data from CT IOT platform.

1.5.2 Syntax

Syntax	Response/Action
Unsolicited Response	+GTLWCTRECV: <data>

1.5.3 Attributes

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

1.5.4 Defined Values

<data>: HEX string, should be even, the supported characters are 0~9, A~F, a~f.
maximum length is 1024 characters.

1.6 +GTLWCTRCVIND, LwM2M Client receive data Num

1.6.1 Description

In caching mode, receive data number from CT IOT platform. Set the AT command of caching mode: "AT+GTSET= "IPRFMT", 5"; Cancel caching mode AT command:" AT+GTSET= "IPRFMT", 0". If you want to use caching mode, you need to set it before the AT+GTLWCTOPEN AT command.

1.6.2 Syntax

Syntax	Response/Action
Unsolicited Response	+GTLWCTRCVIND: <num>

1.6.3 Attributes

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

1.6.4 Defined Values

<num>: received message length from CT IOT.

1.7 +GTLWCTREAD, LwM2M Client read data

1.7.1 Description

In caching mode, read data from buffer after GTLWCTRCVIND command. Set the AT command of caching mode: "AT+GTSET= "IPRFMT", 5"; Cancel caching mode AT command:" AT+GTSET= "IPRFMT", 0". If you want to use caching mode, you need to set it before the AT+GTLWCTOPEN AT command.

1.7.2 Syntax

Syntax	Response/Action
AT+GTLWCTREAD	+GTLWCTDATA: <data> OK or ERROR

Syntax	Response/Action
AT+GTLWCTREAD?	ERROR
AT+GTLWCTREAD=?	ERROR

1.7.3 Attributes

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

1.7.4 Defined Values

<data>: received message from CT IOT. HEX string, the supported characters are 0~9, A~F, a~f.
 Maximum length is 1024 characters.

1.8 +GTLWCTUPDATE, Send an update request

1.8.1 Description

Send update data to CT IOT platform.

1.8.2 Syntax

Syntax	Response/Action
AT+GTLWCTUPDATE	OK +GTLWCTNOTIFY: register update success or ERROR

1.8.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
No	No	No	Yes	< 100s

1.8.4 Defined Values

NA