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FIBOCOM_L610_AT_Commands_User_Manual_HTTP

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Applicability Type

No.	Type	Note
1	L610 Series	NA

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Versions

Version	Author	Assessor	Approver	Updata	Remark
V1.0.0	Chai Xiaoqiang	Long Zhongyou	Long Zhongyou	2020-02-10	Initial version

Contents

1 HTTP Commands

1.1 +HTTPSET, Set HTTP or HTTPS parameters

1.1.1 Description

This command is used to set service type of HTTP or HTTPS。

1.1.2 Syntax

Command	Response
+HTTPSET=<"httpParam">,<"httpParamValue"> >	OK or ERROR
+HTTPSET?	+HTTPSET: "httpParam","httpParamValue" +HTTPSET: "httpParam","httpParamValue" … OK
+HTTPSET=?	+HTTPSET: (<"httpParam">),(<"httpParamValue">) OK

1.1.3 Attributes

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

1.1.4 Defined Values

httpParam	httpParamValue
URL	http server address，character string type，string length is 0-255, the string format must be any kind of the following： For HTTP http://host/path:port e.g. http://news.sohu.com/20131010/n387881216.shtml:80 host/path:port e.g. news.sohu.com/20131010/n387881216.shtml:80

httpParam	httpParamValue
	http://host/path e.g. http://news.sohu.com/20131010/n387881216.shtml For HTTPS https://host:port e.g. https:// www.googleapis.com:443 https://host e.g. https:// www.googleapis.com Notes: Host --- http or https host name or host IP address Path --- the file path requested by http or https Port --- http or https port , optional setting. The default number for http is 80, and 443 for https. Note: No matter http or https, it requires the port in the end of URL string.
UAGENT	User-Agent Value, character string type, optional settings.
CONTYPE	Content-Type Value, character string type, optional settings.
ACCEPT	Accept Value, character string type, optional settings.
RESPONSEHEADER	Response Header Value, character string type, optional settings, the default value is "0", it means HTTP head information is showed in AT+HTTPREAD output.
MODE	Read mode Value, character string type, optional settings, the default value is "0". When the value is "1", the received data will be sent to UART since connection built up. AT+HTTPREAD execution can read continuous data until the end of receiving.
REDIR	Redirect Value, character string type, option settings, the default value is "0". When the value is "1", and the module receives 3XX or 500 and other return codes from server, it will redirect to the new URL automatically.
RANGE	Content-Range value, character string type, optional settings, the default value is NULL. Enter each time you use it in accordance with the protocol standard format, such as "bytes=0-12". Receives 206 for success. Overwrite the last record each time it is used. If you don't want to use RANGE, you can assign it to NULL. Post does not apply.
IPV6	Connection type value, character string type, option settings, the default value is "0". When the value is “0”, it means connecting to an IPV4 address. When the value is “1”, it means connecting to an IPV6 address.

Note:

The value of <httpParam> is only support capital letter.

1.2 +HTTPDATA, send POST data to modem

1.2.1 Description

This command is used to send data to the module via UART for HTTPPOST procedure.

1.2.2 Syntax

Command	Response
+HTTPDATA=<length>	> …… OK or ERROR
+HTTPDATA?	OK
+HTTPDATA=?	+HTTPDATA: (list of supported <length>s) 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

<length>: integer type; length of the data will be input. Range 1-64000 byte.

Note:

When the received data length reaches to the given size, the module exits from data mode and responses OK.

The time out of data input is 30 seconds, then the module exits from data mode and response ERROR

1.3 +HTTPACT, start HTTP or HTTPS service

1.3.1 Description

This command used to start HTTP or HTTPS connect (GET or POST)

1.3.2 Syntax

Command	Response
+HTTPACT=<mode>[,<timernum>]	OK or ERROR:
+HTTPACT?	OK
+HTTPACT=?	+HTTPACT: (list of supported <mode>s) [,list of supported <timernum>s] OK
URC	+HTTP: <status> +HTTPS: <status>
URC	+HTTPRES: <mode>,<reply>,<length>

1.3.3 Attributes

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

1.3.4 Defined Values

<mode>: integer type and range 0-1

0 GET

1 POST.

<timernum>: integer type; timeout value，default value is 15s, range 10-60s.

<reply>: HTTP result code

200 OK

404 Not Found

More in RFC2616

<length>: integer type; the length of data receive form server，max support 360000 byte.

<status>: integer type

0 connection failed

1 connection success

1.4 +HTTPREAD, Read data

1.4.1 Description

This command used to read data from module which are received from HTTP or HTTPS server.

1.4.2 Syntax

Command	Response
Read all received data: AT+HTTPREAD	OK +HTTPREAD: <reslength> Data or ERROR
Read part of received data: AT+HTTPREAD=<offset>,<length>	+HTTPREAD: <reslength> Data OK or ERROR
AT+HTTPREAD?	OK
AT+HTTPREAD=?	+HTTPREAD: [<offset>,<length>] OK

1.4.3 Attributes

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

1.4.4 Defined Values

<offset>: integer type; offset from the head of received data. 0-360000

<length>: integer type; length to read. 1-360000

<reslength>: integer type; read data length actually. 1-360000

Note:

HTTPREAD does not take parameters. After reading all the data, it clears the receiving buffer of HTTP or HTTPS.

1.5 +HTTPHEAD, Set HTTP or HTTPS header parameters

1.5.1 Description

The purpose of this command is that it will require HTTP header data to import modules through the serial port. Use in HTTP GET and POST requests.

1.5.2 Syntax

Command	Response
+HTTPHAED=<length>	> …… OK or ERROR
+HTTPHEAD?	OK
+HTTPHEAD=?	+HTTPHEAD: (1-5120) OK

1.5.3 Attributes

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

1.5.4 Defined Values

<length>: integer type; length of the data will be input. Range 1-5120 byte.

Note:

1. When using HTTPHEAD, except URL, the other head parameters set by HTTPSET are invalid.

2. When the received data length reaches to the given size, the module exits from data mode and responses OK.

3. The time out of data input is 30 seconds, then the module exits from data mode and response ERROR.