

FTP HTTP AT Commands User Guide

AN_SIM900_FTP_HTTP_APP_V1.00





Document Title:	IP Application Note	
Version:	1.00	
Date:	2010-07-06	
Status:	New	
Document Control ID:	AN_SIM900_FTP_HTTP_Application Note_V1.00_Beta	

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VERSION HISTORY

Now document: SIM900 IP Application Note" Version 1.00

Version	Chapter	What is new
V1.00	NEW	



Contents

Ver	rsion history	4
1. I	Introduction	7
	1.1 Scope of the document	7
	1.2 Related documents	7
	1.3 Conventions and abbreviations	7
2.	AT commands	8
	2.1 AT+SAPBR	8
	2.2 Internet HTTP Service Commands	9
	2.2.1 AT+HTTPINIT	9
	2.2.2 AT+HTTPTERM	10
	2.2.3 AT+HTTPPARA	10
	2.2.4 AT+HTTPDATA	12
	2.2.5 AT+HTTPACTION	12
	2.2.6 AT+HTTPREAD	14
	2.3 FTP AT Commands	15
	2.3.1 AT+ FTPPORT	15
	2.3.2 AT+ FTPMOD	16
	2.3.3 AT+FTPTYPE	17
	2.3.4 AT+FTPPUTOPT.	17
	2.3.5 AT+FTPCID	18
	2.3.6 AT+FTPREST	19
	2.3.7 AT+FTPSERV	20
	2.3.8 AT+FTPUN	20
	2.3.8 AT+FTPPW	21
	2.3.9 AT+ FTPGETNAME	22
	2.3.10 AT+FTPGETPATH	23
	2.3.11 AT+FTPPUTNAME	23
	2.3.12 AT+FTPPUTPATH	24
	2.3.13 AT+FTPGET	25
	2.3.14 AT+FTPPUT	26
3.	Examples	27
	3.1 Bearer profile	27
	3.2 HTTP GET method	28
	3.3 HTTP POST method	28
	3.4 HTTP HEAD method	29
	3.5 Set Proxy HTTP Server	29
	3.6 Set HTTP Redirection Parameter	30
	3.7 Set HTTP Download Break Point Parameter	31
	3.8 FTP GET	31
	3.9 FTP PUT	32
	3.10 FTP TIME OUT	33
SIN	M900 IP APPLICATION 5	



3.11 FTP ERROR	34
3.12 FTP OPERATION ERROR	34
2 12 ETD DE AD AND WIDTE EDDOD	24



1. INTRODUCTION

1.1 Scope of the document

This document describes how to use AT commands for FTP and HTTP function.

1.2 Related documents

- [1] SIM900 AT Commands Set.
- [2] SIM900_TCPIP

1.3 Conventions and abbreviations

FTP File Transfer Protocol

HTTP Hypertext Transfer Protocol

APN Access Point Name

GPRS General Packet Radio Service

PDP Packet Data Protocol



2. AT commands

2.1 AT+SAPBR

AT+SAPBR	SIMCOM APPLICATION BEARER	
Test command	Response	
AT+SAPBR=?	+SAPBR: (0-4), (1-3), "ConParamTag", "ConParamValue"	
	ОК	
	Parameters	
	see Write Command	
Write command	Response	
AT+SAPBR	OK	
= <cmd_type>,<cid></cid></cmd_type>		
,[<conparamtag>,</conparamtag>	If <cmd_type> = 2</cmd_type>	
<conparamvalue>]</conparamvalue>		
	OK	
	If <cmd_type>=4 +SAPBR:</cmd_type>	
	+SAPBR: <conparamtag>,<conparamvalue></conparamvalue></conparamtag>	
	OK	
	Unsolicited Result Code	
	+SAPBR < cid >: DEACT	
	Parameters	
	< cmd_type > 0: close bearer	
	1: open bearer	
	2: query bearer3: set bearer parameters	
	4: get bearer parameters	
	4. get bearet parameters	
	< cid > bearer profile identifier	
	<status> 0: bearer is connecting 1: bearer is connected</status>	
	2: bearer is closing	
	3. bearer is closed	
	3. bearer is closed	



< ConParamTag > bearer p	< ConParamTag > bearer parameter		
"CONTYF	PE" Type of Internet connection. Value refer to		
	< ConParamValue_ConType>		
"APN"	Access point name string: maximum 50 characters		
"USER"	User name string: maximum 50 characters		
"PWD"	Password string: maximum 50 characters		
"PHONEN	IUM" Phone number for CSD call		
"RATE"	CSD connection rate. value refer to		
	< ConParamValue_Rate >		
< ConParamValue > bearer	paramer value		
< ConParamValue_ConTy	< ConParamValue_ConType >		
"CSD"	Circuit-switched data call.		
"GPRS"	GPRS connection.		
< ConParamValue_Rate >			
0: 24	00		
1: 48	00		
<u>2</u> : 96	00		
3: 14	400		
< IP_Addr>: the IP addres	s of bearer		
Reference Note			

2.2 HTTP AT Commands

2.2.1 AT+HTTPINIT

AT+HTTPINIT	HTTP Service Initialize
Test command	Response
AT+HTTPINIT=?	
	ОК
Write command	Response
AT+HTTPINIT	
	ОК

	If error is related to ME functionality: ERROR Parameters	
Reference	Note Before using HTTP service, HTTPINIT should be executed to initialize the HTTP stack	
	firstly.	

2.2.2 AT+HTTPTERM

AT+HTTPTERM	HTTP Service Terminate
Test command	Response
AT+HTTPTERM=	
?	ОК
Write command	Response
AT+ HTTPTERM	
ОК	
	If error is related to ME functionality:
	ERROR
	Parameters
Reference	Note

2.2.3 AT+HTTPPARA

AT+HTTPPARA	SET HTTP Parameters
Test command	Response
AT+HTTPPARA=?	+HTTPPARA: "HTTPParamTag"," HTTPParmValue"
	OK
	Parameters
Write command	Response
AT+ HTTPPARA	
=< HTTPParamTag	ОК
>,<	



HTTPParamValue	If error is related to ME	functionality:
>	ERROR	,
	Parameters	
		LITTD Denometer
		HTTP Parameter
		Mandatory Parameter) bearer profile identifier refer to
		AT+SAPBR
		(Mandatory Parameter) HTTP client URL
		"http://'server'/'path':'tcpPort' "
		"server": FQDN or IP-address
		"path": path of file or directory
		"tcpPort": If parameter is omitted, the service connects to HTTP
		default port 80.
		Refer to "IETF-RFC 2616".
	"UA"	The user agent string must be set by the application to identify
		the mobile. Usually operation system and software version
		info is set with this browser identifier.
	"PROIP"	The IP address of HTTP proxy server
	"PROPORT	"The port of HTTP proxy server
	"REDIR"	This flag controls the redirection mechanism of the SIM900
		acting as HTTP client (numeric).
		If the flag is set (1) the client automatically sends a new
		HTTP request if the server answers with a redirect code
		(range 30x). Default value is 0 (no redirection).
	"BREAK"	Parameter for HTTP method "GET".
		Get partly data range, breakPoint to the end.
		Note:
		Not all the HTTP Server support <break> parameter</break>
		Not all the 11111 Server support \DREAK> parameter
	< HTTPParamValue >	HTTP Parameter value .
		Type and supported content depend on related parameters
		< HTTPParamTag >.
Read command	Response	
AT+HTTPPARA?	•	PParamTag >,< HTTPParamValue >
	ОК	
	Parameters	
Reference	Note	



2.2.4 AT+HTTPDATA

AT+HTTPDATA	HTTP DATA WRITE	
Test command	Response	
AT+HTTPDATA=?	+HTTPDATA: (1-60416), (1000-120000)	
	OK	
	Parameters	
Write command	Response	
AT+HTTPDATA=<	•	
size>, <time></time>	DOWNLOAD	
	OK	
	If error is related to ME functionality:	
	+CME ERROR: <err></err>	
	Parameters	
	<size> Size in bytes for the data which is put by the command of "POST".</size>	
	<time> Maximum time in milliseconds for inputting data.</time>	
Reference	Note	
	It is strongly recommended to set the time as long as enough to input all data and that the real size of the downloaded file is no more than the value of <size>.</size>	

2.2.5 AT+HTTPACTION

AT+HTTPACTION	HTTP method Action
Test command	Response
AT+HTTPACTION	+HTTPACTION: (0-2)
=?	
	OK
Write command	Response
AT+HTTPACTION	
= <method></method>	OK
	If error is related to ME functionality:
	+CME ERROR: <err></err>
	Unsolicited Result Code
	+HTTPACTION: <method>< StatusCode >,<datalen></datalen></method>



Parameter

< Method > HTTP method specification:

0: GET

1: POST

2: HEAD

<StatusCode> HTTP status code responded by remote server, its identifier refer to

HTTP1.1(RFC2616)

100 Continue

101 Switching Protocols

200 OK

201 Created

202 Accepted

203 Non-Authoritative Information

204 No Content

205 Reset Content

206 Partial Content

300 Multiple Choices

301 Moved Permanently

302 Found

303 See Other

304 Not Modified

305 Use Proxy

307 Temporary Redirect

400 Bad Request

401 Unauthorized

402 Payment Required

403 Forbidden

404 Not Found

405 Method Not Allowed

406 Not Acceptable

407 Proxy Authentication Required

408 Request Time-out

409 Conflict

410 Gone

411 Length Required

412 Precondition Failed

413 Request Entity Too Large

414 Request-URI Too Large

415 Unsupported Media Type

416 Requested range not satisfiable



DIMPOUR THE LICIT	11011			
		417	Expectation Failed	
		500	Internal Server Error	
		501	Not Implemented	
		502	Bad Gateway	
		503	Service Unavailable	
		504	Gateway Time-out	
		505	HTTP Version not supported	
		600	Not HTTP PDU	
		601	Network Error	
		602	No memory	
		603	DNS Error	
		604	Stack Busy	
	<datalen></datalen>	the le	ength of data got	
Reference	Note			
				_

2.2.6 AT+HTTPREAD

AT+HTTPREAD	Read the HTTP server response
Execution command	Response
AT+HTTPREAD	+HTTPREAD
	<data></data>
	ок
	Read all the data response by AT+HTTPACTION=0 or AT+HTTPDATA
	If error is related to ME functionality:
	+CME ERROR: <err></err>
Write command	Response
AT+ HTTPREAD	+HTTPREAD: <date_len></date_len>
= <start_address><b< th=""><th><data></data></th></b<></start_address>	<data></data>
yte_size>	ОК
	Read part of the data response by AT+HTTPACTION=0 or AT+HTTPDATA
	If the value of <byte_size> is bigger than the received data size, data will only return</byte_size>
	actually data size.
	If error is related to ME functionality:
	+CME ERROR: <err></err>
SIM900 IP APPLICA	TION 14



	Parameters	
	<data></data>	The data of HTTP server response by AT+ HTTPACTION=0
	<start_address></start_address>	The starting point for data output
	 	The length for data output
	<data_len></data_len>	The actual length for data output
Test command	Response	
AT+HTTPREAD=?	+HTTPREAD: (1	1- 318976), (1- 318976)
	ОК	
Reference	Note	
	The execution is u	used to send the HTTP server response to UART or the data ready to
	POST the server.	??

2.3 FTP AT Commands

2.3.1 **AT+ FTPPORT**

AT+FTPPORT	SET FTP CONTROL PORT
Test command	Response
AT+FTPPORT =?	
	OK
	Parameters
Write command	Response
AT+FTPPORT	
= <value></value>	ок
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> The value of FTP Control port, from 1 to 65535.</value>
	Default value is 21

Read command	Response
AT+ FTPPORT?	+FTPPORT: < value >
	OK
	Parameters
	See Write Command
Reference	Note
	Numbers above 65535 are illegal as the port identification fields are 16 bits long in the
	TCP header.

2.3.2 **AT+ FTPMODE**

AT+FTPMODE	SET FTP ACTIVE OR PASSIVE MODE
Test command	Response
AT+FTPMODE =?	
	OK
	Parameters
Write command	Response
AT+FTPMODE	
= <value></value>	OK
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> 0: Ftp active mode</value>
	1 : Ftp passive mode
	Default value is 1
Read command	Response
AT+FTPMODE?	+FTPMODE: < value >
	OK
	Parameters
	See Write Command
Reference	Note



2.3.3 **AT+FTPTYPE**

AT+FTPTYPE	SET THE TYPE OF DATA TO BE TRANSFERRED
Test command AT+FTPTYPE =?	Response
	ОК
	Parameters
Write command	Response
AT+FTPTYPE	
= <value></value>	ОК
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> "A": for FTP ASCII sessions</value>
	"I" : for FTP Binary sessions
	Default value is "I"
Read command	Response
AT+FTPTYPE?	+FTPTYPE: < value >
	ОК
	Parameters
	See Write Command
Reference	Note
	When this value is set to A, all the data sent by the stack to the FTP server is made of 7
	bits characters (NVT-ASCII: the MSB is set to 0). As a consequence binary data
	containing 8 bits characters will be corrupted during the transfer if the FTPTYPE is set
	to A.

2.3.4 **AT+FTPPUTOPT**

AT+FTPPUTOPT SET FTP PUT TYPE		
Test command	Response	
AT+FTPPUTOPT		
=?	ОК	
	Parameters	

Write command AT+FTPPUTOPT	Response
= <value></value>	OK
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> "APPE": for append file</value>
	"STOU": for store unique file
	"STOR": for store file
	Default value is "STOR"
Read command	Response
AT+FTPPUTOPT?	+FTPPUTOPT: < value >
	OK
	Parameters
	See Write Command
Reference	Note

2.3.5 **AT+FTPCID**

AT+FTPCID	SET FTP BEARER PROFILE IDENTIFIER
Test command	Response
AT+FTPCID=?	
	OK
	Parameters
Write command	Response
AT+FTPCID= <valu< td=""><td></td></valu<>	
e>	ОК
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> bearer profile identifier refer to AT+SAPBR</value>
Read command	Response
AT+FTPCID?	+ FTPCID: < value >

	OK
	Parameters See Write Command
Reference	Note

2.3.6 **AT+FTPREST**

AT+FTPREST	RESUME BEOKEN DOWNLOADS
Test command AT+ FTPREST =?	Response OK Parameters
Write command AT+FTPREST= <va lue=""></va>	OK If error is related to ME functionality: ERROR Parameters <value> broken point to be resumed</value>
Read command AT+ FTPREST?	Response + FTPREST: < value > OK Parameters See Write Command
Reference	Note



2.3.7 **AT+FTPSERV**

AT+FTPSERV	SET FTP SERVER ADDRESS
Test command AT+FTPSERV =?	Response OK
	Parameters
Write command AT+FTPSERV	Response
= <value></value>	ок
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> 32-bit number in dotted-decimal notation (i.e. xxx.xxx.xxx) or</value>
	alphanumeric ASCII text string up to 49 characters if DNS is available
Read command	Response
AT+FTPSERV?	+FTPSERV: < value >
	ок
	Parameters
	See Write Command
Reference	Note

2.3.8 **AT+FTPUN**

AT+FTPUN	SET FTP USER NAME
Test command	Response
AT+FTPUN=?	
	ОК
	Parameters

Write command	Response
AT+FTPUN= <value< th=""><th>ОК</th></value<>	ОК
>	
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> Alphanumeric ASCII text string up to 49 characters.</value>
Read command	Response
AT+FTPUN?	+FTPUN: < value >
	OK
	Parameters
	See Write Command
Reference	Note

2.3.8 **AT+FTPPW**

AT+FTPPW	SET FTP PASSWORD
Test command AT+FTPPW =?	Response OK
	Parameters
Write command	Response
AT+FTPPW	ОК
= <value></value>	If error is related to ME functionality: ERROR
	Parameters
	<value> Alphanumeric ASCII text string up to 49 characters.</value>
Read command	Response
AT+FTPPW?	+FTPPW: < value >
	OK

DIMOUN INTERCENT	
	Parameters See Write Command
Reference	Note

2.3.9 AT+ FTPGETNAME

AT+FTPGETNAME	SET DOWNLOAD FILE NAME
Test command AT+FTPGETNAM E =?	Response OK
	Parameters
Write command	Response
AT+FTPGETNAM E = <value></value>	ОК
	If error is related to ME functionality: ERROR
	Parameters <value> Alphanumeric ASCII text string up to 99 characters</value>
Read command	Response
AT+FTPGETNAM E?	+ FTPGETNAME: < value >
	ОК
	Parameters See Write Command
Reference	Note



2.3.10 **AT+FTPGETPATH**

AT+FTPGETPATH	SET DOWNLOAD FILE PATH
Test command	Response
AT+FTPGETPATH	ОК
=?	
	Parameters
Write command	Response
AT+FTPGETPATH	ОК
= <value></value>	If error is related to ME functionality:
	ERROR
	Parameters
	<value> Alphanumeric ASCII text string up to 99 characters</value>
Read command	Response
AT+FTPGETPATH ?	+FTPGETPATH: < value >
•	ок
	Parameters
	See Write Command
Reference	Note

2.3.11 AT+FTPPUTNAME

AT+FTPPUTNAME SET UPLOAD FILE NAME	
Test command	Response
AT+FTPPUTNAM	ОК
E=?	
	Parameters

Write command AT+FTPPUTNAM E = <value></value>	Response OK If error is related to ME functionality: ERROR
	Parameters <value> Alphanumeric ASCII text string up to 99 characters</value>
Read command AT+FTPPUTNAM E?	Response +FTPPUTNAME: < value > OK
	Parameters See Write Command
Reference	Note

2.3.12 **AT+FTPPUTPATH**

AT+FTPPUTPATH	SET UPLOAD FILE PATH
Test command	Response
AT+FTPPUTPATH	ОК
=?	
	Parameters
Write command	Response
AT+FTPPUTPATH	ок
= <value></value>	
	If error is related to ME functionality:
	ERROR
	Parameters
	<value> Alphanumeric ASCII text string up to 99 characters</value>



Read command	Response
AT+FTPPUTPATH	+FTPPUTPATH: < value >
?	
	ОК
	Parameters
	See Write Command
Reference	Note

2.3.13 **AT+FTPGET**

AT+FTPGET SET DOWNLOAD FILE		
Test command	Response	
AT+FTPGET =?	ОК	
	Parameters	
Write command	Response	
AT+FTPGET	If mode is 1, it is a successful FTP get session:	
= <mode>,[<</mode>	OK	
reqlength>]	+FTPGET:1,1	
	If data transfer finished:	
	+FTPGET:1,0	
	If mode is 1, it is a failed FTP get session:	
	OK	
	+FTPGET:1, <error></error>	
	If mode is 2:	
	+FTPGET:2, <cnflength></cnflength>	
	012345678	
	OK	
	If error is related to ME functionality:	
	ERROR	



SIM900 IP APPLICA	A company of	DWI HCF	
	Parameters		
	< mode> 1: for open FTP get session		
	2: for read FTP download data.		
	<reqlength> Requested number of data bytes (1-1460)to be read</reqlength>		
	<cnflength> Confirmed number of data bytes to be read, which may be less than</cnflength>		
	<length>. 0 indicates that no data can be read.</length>		
	<error>61 Net error</error>		
	62 DNS error		
	63 connect error		
	64 timeout		
	65 server error		
	66 operation not allow		
	70 replay error		
	71 user error		
	72 password error		
	73 type error		
	74 rest error		
	75 passive error		
	76 active error		
	77 operate error		
	78 upload error		
	79 download error		
Reference	Note		
	When "+FTPGET:1,1" is shown, then user can use AT+FTPGET:2, <reqlength< th=""><th>⊳ to</th></reqlength<>	⊳ to	
	read data. If the module still has unread data, "+FTPGET:1,1" will be shown a	gain	
	in a certain time.		

2.3.14 **AT+FTPPUT**

AT+FTPPUT SET UPLOAD FILE		
Test command	Response	
AT+FTPPUT=?	ОК	
	Parameters	



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Write command	Response
AT+FTPPUT	If mode is 1, it is a successful FTP get session:
= <mode>,[<</mode>	OK
reqlength>]	+FTPPUT:1,1, <maxlength></maxlength>
	If mode is 1, it is a failed FTP get session:
	ОК
	+FTPPUT:1, <error></error>
	If mode is 2 and <reqlength> is not 0</reqlength>
	+FTPPUT:2, <cnflength></cnflength>
	//Input data
	ОК
	If mode is 2 and <reqlength> is 0, response OK, and FTP session will be closed</reqlength>
	OK
	If data transfer finished.
	+FTPPUT:1,0
	If error is related to ME functionality:
	ERROR
	Parameters
	< mode> 1: for open FTP put session
	2: for write FTP upload data.
	<reqlength> Requested number of data bytes(0-<maxlength>) to be transmitted</maxlength></reqlength>
	<cnflength> Confirmed number of data bytes to be transmitted</cnflength>
	<maxlength>The max length of data can be sent at one time. It depends on the network</maxlength>
	status.
	<error> see AT+FTPGET</error>
Reference	Note
	When "+FTPPUT:1,1, <maxlength>" is shown, then use AT+FTPPUT=2,</maxlength>
	<reqlength> to write data.</reqlength>

3. Examples

3.1 Bearer profile



Demonstration	Syntax	Expect Result
Configure bearer profile 1	AT+SAPBR=3,1,"Contype","GPRS"	OK
	AT+SAPBR=3,1,"APN","CMNET"	OK
To open a GPRS context.	AT+SAPBR =1,1	OK
To query the GPRS context.	AT+SAPBR=2,1	+SAPBR: 1,1,"10.89.193.1" OK
To close a GPRS context.	AT+SAPBR =0,1	OK
GPRS context is released by network		+SAPBR 1: DEACT

3.2 HTTP GET method

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK
Set parameters for HTTP session	AT+HTTPPARA = "CID",1	OK
	AT+HTTPPARA="URL","www.si m.com"	ОК
GET session start	AT+HTTPACTION=0	OK
GET successfully		+HTTPACTION:0,200,1000
Read the data of HTTP server	AT+HTTPREAD	+HTTPREAD: 1000 //output the data to uart OK
Terminate http service	AT+HTTPTERM	ОК

3.3 HTTP POST method

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK

AT+HTTPPARA = "CID",1	OK
AT+HTTPPARA="URL","www.si m.com"	OK
AT+HTTPDATA=100,10000	DOWNLOAD
	//It is ready to receive
	data from uart, and DCD has
	been set to low.
	OK //All data has been
	received over, and DCD is set to high.
AT+HTTPACTION=1	OK
	+HTTPACTION:1,200,0
AT+HTTPTERM	ОК
	AT+HTTPPARA="URL","www.si m.com" AT+HTTPDATA=100,10000 AT+HTTPACTION=1

3.4 HTTP HEAD method

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK
Set parameters for HTTP session	AT+HTTPPARA = "CID",1	OK
	AT+HTTPPARA="URL","www.si m.com"	OK
HEAD session start	AT+HTTPACTION=1	OK
HEAD successfully		+HTTPACTION:1,200,0
Terminate http service	AT+HTTPTERM	OK

3.5 Set Proxy HTTP Server

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK

Set parameters for HTTP session	AT+HTTPPARA="CID",1 AT+HTTPPARA="URL","www.si m.com"	ОК
Set proxy server IP address	AT+HTTPPARA="PROIP","10.0.0. 172"	OK
Set proxy server port	AT+HTTPPARA = "PROPORT",80	OK
GET session start	AT+HTTPACTION=0	OK
GET successfully		+HTTPACTION:0,200,1000
Read the data of HTTP server	AT+HTTPREAD	+HTTPREAD: 1000 //output the data to uart OK
Terminate http service	AT+HTTPTERM	OK

3.6 Set HTTP Redirection Parameter

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK
Set parameters for HTTP session	AT+HTTPPARA = "CID",1	OK
Set the redirection parameter	AT+HTTPPARA = "REDIR",1	OK
Set the wrong URL	AT+HTTPPARA="URL","www.si m.com/abcde"	OK
GET session start	AT+HTTPACTION=0	OK
GET successfully		+HTTPACTION:0,200,1000
Read the response of HTTP server	AT+HTTPREAD	+HTTPREAD: 1000 //output the data to uart OK
Terminate http service	AT+HTTPTERM	OK



3.7 Set HTTP Download Break Point Parameter

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK
Set parameters for HTTP session	AT+HTTPPARA = "CID",1	OK
Set the URL, the size of gif is 16384 bytes	AT+HTTPPARA = "URL"," http://www.sim.com/img/sim_logo_j r_1003_38.gif"	OK
Set the wrong URL	AT+HTTPPARA = "BREAK",2000	OK
GET session start, get data from 2000 to 16384	AT+HTTPACTION=0	OK
GET successfully		+HTTPACTION:0, 200,14384
Read the data of HTTP server	AT+HTTPREAD	+HTTPREAD: 14384 //output the data to uart OK
Terminate http service	AT+HTTPTERM	OK

3.8 FTP GET

Demonstration	Syntax	Expect Result
Set parameters for FTP session	AT+FTPCID=1	OK
	AT+FTPSERV="116.228.221.52"	ОК
	AT+FTPUN="sim.cs1"	ОК
	AT+FTPPW="*****"	ОК
	AT+FTPGETNAME="1K.txt"	OK
	AT+FTPGETPATH="/"	ОК
Open the FTP get session	AT+FTPGET=1	OK
Data are available		+FTPGET:1,1
SIM900 IP APPLICATION	31	



SIMPOUT AFFLICATION		A company of part race
Request to read 1024 bytes, but Only 50 bytes are now available.	AT+FTPGET=2,1024	+FTPGET:2,50 0123456789012345678901234 5678901234567890123456789 0 OK
Request to read 1024 bytes again. 0 bytes are now available, but it is not the end of session	AT+FTPGET=2,1024	+FTPGET:2,0 OK
If the module receives data but user do not input "AT+FTPGET:2, <reqlength>" to read data, "+FTPGE T:1,1" will be shown again in a certain time.</reqlength>		+FTPGET:1,1
Request to read 1024 bytes. 1024 bytes are now available.	AT+FTPGET=2,1024	+FTPGET:2,1024 0123456789012345678901234 5678901234567890123456789 01234 OK
Data transfer finished. The connection to the FTP server is closed.		+FTPGET:1,0

3.9 FTP PUT

Demonstration	Syntax	Expect Result
Set parameters for FTP session	AT+FTPCID=1	OK
	AT+FTPSERV="116.228.221.52"	OK
	AT+FTPUN="sim.cs1"	ОК
	AT+FTPPW="*****"	ОК
	AT+FTPPUTNAME="1K.txt"	ОК
	AT+FTPPUTPATH="/"	ОК
CIMOGO ID ADDI ICATION	22	

SIMPOUTPAPPLICATION		in company or said race.
Open the FTP put session	AT+ FTPPUT =1	OK
FTP session is ready for upload. 1280 is the max length of data which can be sent at a time. It depends on the network status.		+FTPPUT:1,1,1280
Client requests to send 100 bytes. Response will indicates that user must input 100 bytes for transferring now.	AT+FTPPUT=2,100	+FTPPUT:2,100 //It is ready to receive data from uart, and DCD has been set to low. OK //All data has been received over, and DCD is set to high.
URC indicates that the FTP session is ready to transfer more data.		+FTPPUT:1,1,1280
No more data will be uploaded. the FTP session will be closed.	AT+FTPPUT=2,0	OK
Data transfer finished. The connection to the FTP server is closed.		+FTPPUT:1,0

3.10 FTP TIME OUT

Demonstration	Syntax	Expect Result
Open the FTP Get session	AT+ FTPGET =1	OK
If the status of the network is poor, may be time out.		+FTPGET:1,64
The connection to the FTP server is		
closed		
Open the FTP Get session	AT+ FTPGET =1	OK
Data are available		+FTPGET:1,1
If costumer do not use		+FTPGET:1,1
"AT+FTPGET:2, <reqlength>" to</reqlength>		
read data, "+FTPGE T:1,1" will be		+FTPGET:1,1
shown again in a certain time.		



If the user do not read data for a	+FTPGET:1,64
long time, the session will time out.	
The connection to the FTP server is	
closed.	

3.11 FTP ERROR

Demonstration	Syntax	Expect Result
Set wrong password	AT+FTPPW="3214567"	OK
Open the FTP Get session	AT+ FTPGET =1	OK
FTP session password error. The connection to the FTP server is closed		+FTPPUT:1,72
Note: Another error, you can see AT+FTPGET		

3.12 FTP OPERATION ERROR

Demonstration	Syntax	Expect Result
Open the FTP Get session.	AT+ FTPGET =1	OK
The parameter of "get file name" is		+FTPPUT:1,66
empty. Show ftp operation error		
Open the FTP PUT session	AT+ FTPPUT =1	OK
Open the FTP PUT session again.	AT+ FTPPUT =1	OK
Show ftp operation error		
		+FTPPUT:1,66

3.13 FTP READ AND WRITE ERROR

Demonstration	Syntax	Expect Result
Open the FTP Get session.	AT+ FTPGET =1	OK

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Read data before "+FTPGET:1,1" is shown	AT+FTPGET=2,1000	ERROR
Data are available		+FTPGET:1,1
Read data after "+FTPGET:1,1" is shown	AT+ FTPGET =1	+FTPGET:2,50 0123456789012345678901234 5678901234567890123456789 0 OK
Data transfer finished. The connection to the FTP server is closed.		+FTPGET:1,0
Read data after FTP session is stopped	AT+FTPGET=2,1000	ERROR
Open the FTP PUT session.	AT+ FTPPUT =1	OK
Write data before "+FTPPU T:1,1,1280" is shown	AT+FTPPUT=2,1000	ERROR
FTP session is ready for upload		+FTPPUT:1,1,1280
Write data after "+FTPPU T:1,1,1280" is shown	AT+FTPPUT=2,100	+FTPPUT:2,100 OK
No more data will be uploaded. the FTP session will be closed.	AT+FTPPUT=2,0	OK
Write data after FTP session is stopped	AT+ FTPPUT=2,100	ERROR



Contact us:

Shanghai SIMCom Wireless Solutions Ltd.

Add: Building A, SIM Technology Building, No.633 Jinzhong Road, Changning

District, Shanghai, P. R. China 200335

Tel: +86 21 3252 3300 Fax: +86 21 3252 3301 URL: <u>www.sim.com/wm</u>