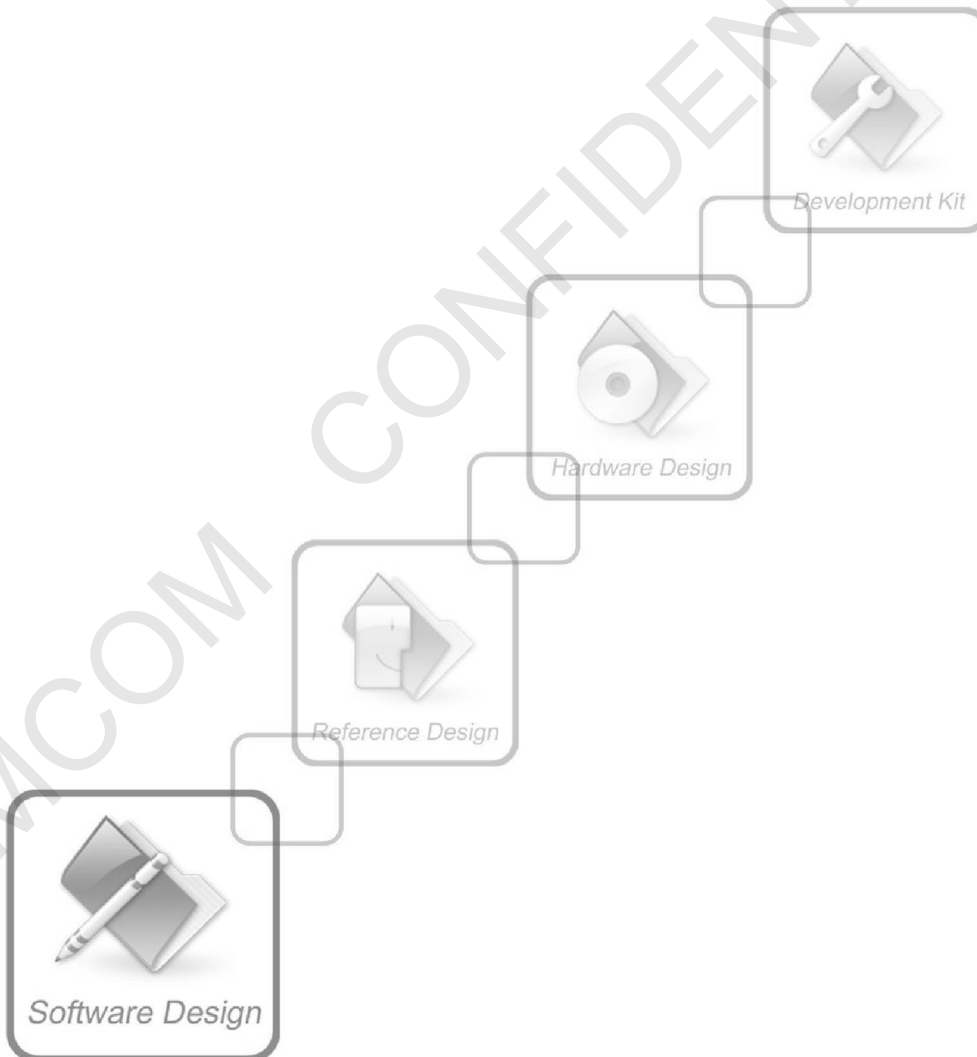

SIM5300E_HTTP_Application Note



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1 BEARER CONFIGURE

The bearer contexts of HTTP and FTP applications can be set or activated by SAPBR command.

1.1 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

2 HTTP APPLICATION

Hyper Text Transfer Protocol application provides a mode to alternate with HTTP server. The basic application contains GET, POST, HEAD methods; it also supports proxy server, redirection, and broken transfer resuming functions.

2.1 HTTP GET METHOD

Download data from HTTP server

Demonstration	Syntax	Expect Result
Init http service	AT+HTTTPINIT	OK
Set parameters for HTTP session	AT+HTTTPARA="CID",1	OK
	AT+HTTTPARA="URL","www.sicom.com"	OK
GET session start	AT+HTTTPACTION=0	OK
GET successfully		+HTTTPACTION:0,200,1000
Read the data of HTTP server	AT+HTTTPREAD	+HTTTPREAD:1000 //output the data to uart OK
Terminate http service	AT+HTTTPTERM	OK

2.2 HTTP POST METHOD

Upload data to HTTP server

Demonstration	Syntax	Expect Result
Init http service	AT+HTTTPINIT	OK
Set parameters for HTTP session	AT+HTTTPARA="CID",1	OK
	AT+HTTTPARA="URL","www.sicom.com"	OK

	m.com”	
POST the data whose size is 100 Bytes and the maximum latency time for inputting is 10000 ms. It is recommended to set the latency time long enough to allow downloading all the data.	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.
POST session start	AT+HTTPACTION=1	OK
POST successfully		+HTTPACTION:1,200,0
Terminate http service	AT+HTTPTERM	OK

2.3 HTTP HEAD METHOD

Get HTTP head information from HTTP server

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK
Set parameters for HTTP session	AT+HTTPPARA="CID",1	OK
	AT+HTTPPARA="URL","www.sim.com"	OK
HEAD session start	AT+HTTPACTION=2	OK
HEAD successfully		+HTTPACTION:2,200,0
Terminate http service	AT+HTTPTERM	OK

2.4 SET PROXY HTTP SERVER

It provides the method to use 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.sicom.com"	OK OK
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

2.5 SET HTTP REDIRECTION PARAMETER

It provides the method to use HTTP redirection function.

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 URL	AT+HTTPPARA="URL","www.sicom.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

2.6 SET HTTP DOWNLOAD BREAK POINT PARAMETER

It provides the method to use HTTP broken download resuming function.

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_jr_1003_38.gif"	OK
Set the break point	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 the HTTP server	AT+HTTPREAD	+HTTPREAD:14384 //output the data to uart OK
Terminate http service	AT+HTTPTERM	OK

2.7 GET HTTP CURRENT STATUS

Demonstration	Syntax	Expect Result
Init http service	AT+HTTPINIT	OK
Set parameters for HTTP session	AT+HTTPPARA="CID",1	OK
	AT+HTTPPARA="URL","www.	OK

	baidu.com”	
GET session start	AT+HTTPACTION=0	OK
The status of getting session is in progress	AT+HTTPSTATUS?	+HTTPSTATUS: GET,1,1440,7915 OK
GET successfully		+HTTPACTION:0,200,9355
The status of getting session is over	AT+HTTPSTATUS?	+HTTPSTATUS: GET,0,0,0 OK
POST session start	AT+HTTPACTION=1	OK
The status of posting session is in progress	AT+HTTPSTATUS?	+HTTPSTATUS: POST,2,1440,608 OK
POST successfully		+HTTPACTION:1,200,0
The status of posting session is over	AT+HTTPSTATUS?	+HTTPSTATUS: POST,0,0,0 OK
Terminate http service	AT+HTTPTERM	OK

2.8 SET HTTP USERDATA

Demonstration	Syntax	Expect Result
Set http userdata that separated by the default separator field “\r”.	AT+HTTTPARA=”USERDATA ”,”value1\r\nvalue2” OK	AT+HTTTPARA? ...//other data USERDATA: value1\r\nvalue2 OK
Set http userdata that separated by setting the third parameter as customization separator field.	AT+HTTTPARA=”USERDATA ”,”value1 value2,value3 v alue4,value5”,”, ” OK	AT+HTTTPARA? ...//other data USERDATA: value1\r\nvalue2\r\nvalue3\r \nvalue4\r\nvalue5 OK

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