

## AT command for HTTP functions

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HTTP support is not defined in the 3GPP AT command specification. However many module vendors provide proprietary HTTP AT commands. Many IT applications developers are very familiar with developing HTTP applications based on PHP or .net framework. So it is an added benefit if the module supports a native HTTP stack.

SIM900 GPRS module supports HTTP AT commands. They are fairly easy to use. Before HTTP connection can be established, a [GPRS data call](#) (PDP Context) should be set up before.

With [Online AT Command Tester](#) tool, it is easy to test HTTP with the SIMCOM modules. The tool provides the interfaces to read/add/edit/delete bearer profiles which contain information about the type connection used for HTTP (GPRS or Circuit Switch). Then users can test HTTP GET and HTTP POST functions with their own URLs.

**AT Command Tester V23**

**Port Configuration**

Port: COM13 Baud Rate(bps): 115200

**Connection**

Device Model: SIMCOM\_SIM900

Manufacturer: SIMCOM\_Ltd

Status: Connected

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Simcom HTTP testing for Simcom modules

CID	Connection ...	APN	User...	Pass...	Ph...	Rate
1	GPRS	bluevia.movistar.es				2
2	GPRS					2
3	GPRS					2

Bearer CID: 1

URL: http://www.m2msupport.net/m2msupport/http\_get\_test.php

Sucessful HTTP GET test. Data received from m2msupport.net

```

+SAFER: 1,1,"10.2.10.146"
OK
Bearer 1 is Connected.IP address is "10.2.10.146"
Bearer 1 is Connected.
Initializing HTTP service...
AT+HTTPINIT
OK
Setting up HTTP parameters..
AT+HTTPPARA="URL","http://www.m2msupport.net/m2msupport/
OK
AT+HTTPPARA="CID",1
OK
AT+HTTPACTION=0
OK
HTTP GET is sucessful
AT+HTTPREAD
+HTTPREAD:58
Sucessful HTTP GET test. Data received from m2msupport.net
          
```

Initiate the HTTP service,

`AT+HTTPINIT`

OK

Set the HTTP session.

`AT+HTTPPARA="CID",1`

OK

Set the HTTP URL

`at+httppara="URL","www.m2msupport.net/m2msupport/test.php"`

Start the session

`AT+HTTPACTION=0`

OK

`+HTTPACTION:0,601,0`

The above AT response code (601) for HTTP session start indicates that there is a network error. Then make sure that the PDP context is setup properly.

IF the HTTP session is sucessful, it should return code of '200',

`AT+HTTPACTION=0`

```
OK
+HTTPACTION:0,200,4
```

Above HTTP GET request is successful and it returned 4 bytes.

To read the data of the HTTP server,

```
AT+HTTPREAD
```

```
+HTTPREAD:4
```

```
test
```

```
OK
```

To terminate the HTTP service,

```
AT+HTTPTERM
```

```
OK
```

**Keywords:** Module HTTP, M2M HTTP, GPRS HTTP, 3G HTTP, HTTP through AT commands,