SIM7500_SIM7600 Series_Compatibility_With_SIM800_HTTP_ATC_V1.00
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## Version History

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<th>Version</th>
<th>Date</th>
<th>Chapter</th>
<th>What is new</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1.00</td>
<td>2017-09-05</td>
<td></td>
<td>New version</td>
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1 Introduction

The present document describes HTTP AT Commands which are compatible with SIM800 for the SIMCom Module:

SIM7500, SIM7600 series

2 AT commands

2.1 AT+HTTPINIT Start HTTP service

Description
This command is used to start HTTP service.

<table>
<thead>
<tr>
<th>SIM PIN</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
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</tr>
</tbody>
</table>

Syntax

<table>
<thead>
<tr>
<th>Execute Command</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT+ HTTPINIT</td>
<td>OK</td>
</tr>
<tr>
<td></td>
<td>+CME ERROR: &lt;err&gt;</td>
</tr>
</tbody>
</table>

Defined values

<err>
Failure error.

Examples

AT+HTTPINIT
OK

2.2 AT+HTTPTERM Stop HTTP service

Description
This command is used to stop HTTP service
2.3 AT+HTTPPARA  Set HTTP Parameters value

Description
This command is used to set HTTP parameters value.

Defined values

<tag>
HTTP parameters:
"URL" (Mandatory Parameter) HTTP client URL
"http://server/"path":"tcpPort" "server": FQDN or IP-address "path": path of file or directory
"tcpPort": default value is 80. Refer to "IETF-RFC 2616".

<value>
String

Examples

AT+ HTTPTERM
OK

AT+ HTTPTERM=<tag>,<value>
OK
ERROR

AT+ HTTPPARA = "URL","http://mywebserver.com/link"
OK
2.4 AT+HTTPACTION HTTP Method Action

Description
This command is used to action HTTP Method.

Syntax

<table>
<thead>
<tr>
<th>Execute Command</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT+HTTPACTION=&lt;method&gt;</td>
<td>OK</td>
</tr>
<tr>
<td></td>
<td>+HTTPACTION: &lt;method&gt;,&lt;statuscode&gt;,&lt;datalen&gt;</td>
</tr>
<tr>
<td></td>
<td>ERROR</td>
</tr>
</tbody>
</table>

Defined values

<method>
HTTP method specification:
0: GET
1: POST
2: HEAD

<statuscode>
HTTP Status Code responded by remote server, it 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
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>
The length of data received

Examples

\[AT+HTTPACTION=0\]
\[OK\]

\[+HTTPACTION: 0, 200, 234119\]

2.5 AT+HTTPHEAD Read the HTTP Header Information of Server

Response

This command is used to read the HTTP server response header, related to
AT+HTTPACTION=0
### References

<table>
<thead>
<tr>
<th>SIM PIN</th>
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<th>Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Syntax

<table>
<thead>
<tr>
<th>Execute Command</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT+HTTPHEAD=?</td>
<td>OK</td>
</tr>
<tr>
<td>AT+HTTPHEAD</td>
<td>+HTTPHEAD:&lt;data_len&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;data&gt;</td>
</tr>
<tr>
<td></td>
<td>OK</td>
</tr>
<tr>
<td></td>
<td>ERROR</td>
</tr>
</tbody>
</table>

### Defined values

- `<data_len>`
  - The actual length for http header data output
- `<data>`
  - Data from HTTP server

### Examples

```
AT+HTTPHEAD

+HTTPHEAD: 750

HTTP/1.1 200 OK
Date: Thu, 17 Aug 2017 09:41:13 GMT
Content-Type: text/html
Content-Length: 14613
Last-Modified: Tue, 08 Aug 2017 12:43:00 GMT
Connection: Keep-Alive
Vary: Accept-Encoding
Set-Cookie: BAIDUID=285BFC3075260332B95818C087078966:FG=1; expires=Thu, 31-Dec-37 23:55:55 GMT; max-age=2147483647; path=/; domain=.baidu.com
Set-Cookie: BIDUPSID=285BFC3075260332B95818C087078966; expires=Thu, 31-Dec-37 23:55:55 GMT; max-age=2147483647; path=/; domain=.baidu.com
Set-Cookie: PSTM=1502962873; expires=Thu, 31-Dec-37 23:55:55 GMT; max-age=2147483647; path=/; domain=.baidu.com
P3P: CP="OTI DSP COR IVA OUR IND COM"
Server: BWS/1.1
```

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2.6 AT+HTTPREAD  Read the HTTP server response

Description
This command is used to read the HTTP server response

<table>
<thead>
<tr>
<th>SIM PIN</th>
<th>References</th>
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</thead>
<tbody>
<tr>
<td>YES</td>
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</tr>
</tbody>
</table>

Syntax

<table>
<thead>
<tr>
<th>Execute Command</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT+HTTPREAD=&lt;start_addr&gt;,&lt;byte_size&gt;</td>
<td>+ HTTPREAD: &lt;datalen&gt; &lt;data&gt;</td>
</tr>
<tr>
<td></td>
<td>OK</td>
</tr>
<tr>
<td></td>
<td>ERROR</td>
</tr>
</tbody>
</table>

Defined values

- `<start_addr>`
The starting point for data output.

- `<byte_size>`
The length for data output

- `<data>`
Data from HTTP server or user input.

Examples

AT+HTTPREAD=0,3
+HTTPREAD: 3
<!D
OK
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