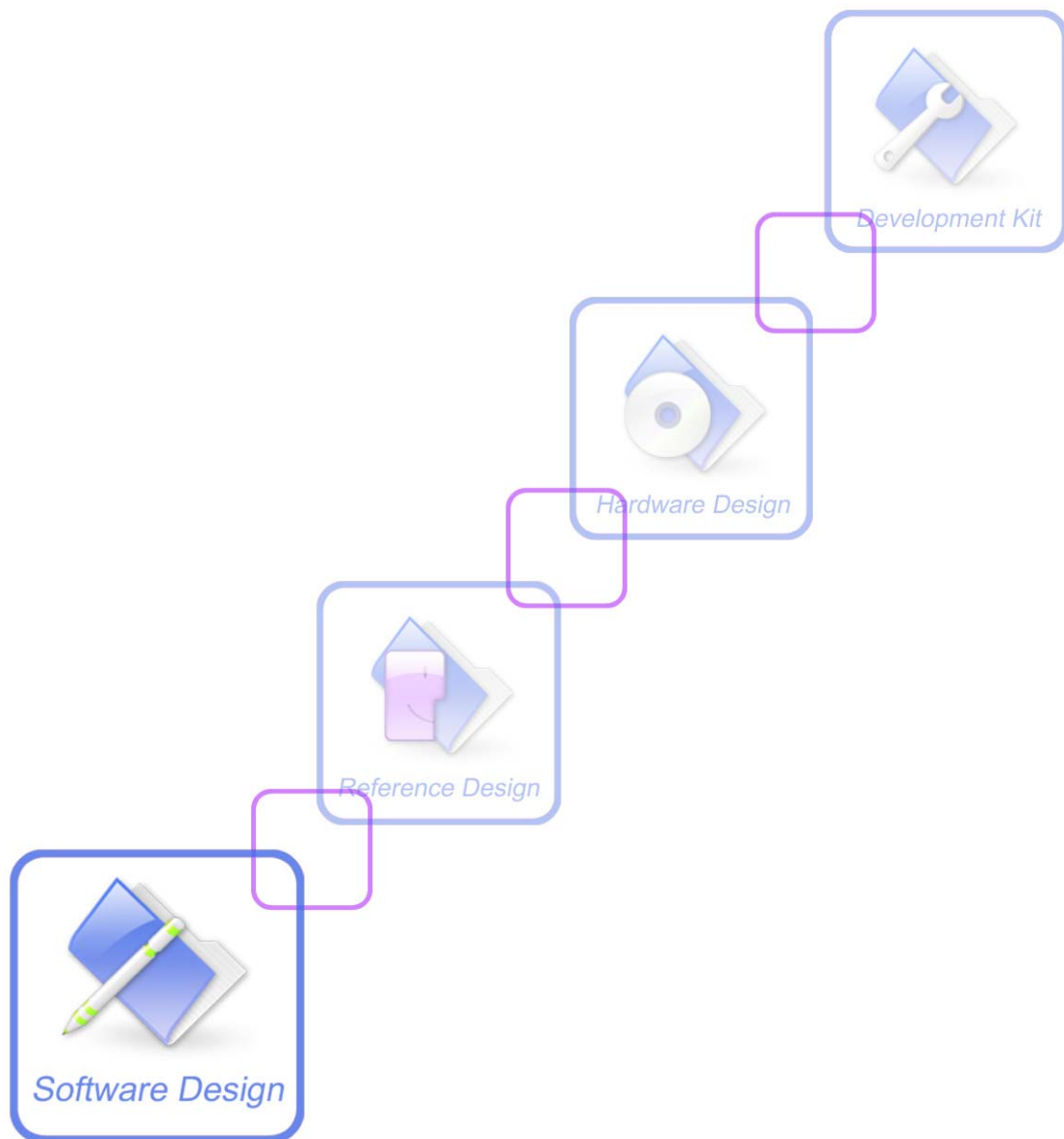




SIM900 NTP AT Command Manual_V1.00



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Version History

Version	Chapter	What is new
V1.00	Origin	

1 Introduction

This document presents the AT command of NTP operation for SIM900. This document can apply to the same series of the modules which contain NTP function, like SIM900, SIM900D, SIM900B and SIM900A.

1.1 Features

1.2 Reference

[1] SIM900 AT Commands Set

2 AT commands

2.1 AT+CNTP

AT+CNTP Set NTP Parameters and Get Network Time	
Test Command AT+CNTP=?	Response OK
Read Command AT+CNTP?	Response +CNTP: "<URL>",<time zone>,<cid>,<mode> OK
	Parameter See Write Command
Write Command AT+CNTP=<URL>[,<time zone>][,<cid>][,<mode>]	Response OK If error is related to ME functionality: +CME ERROR: <err>
	Parameter <URL> A string parameter (string should be included in quotation marks) which indicates the NTP Server address. <time zone> (-12-12) A numeric parameter which indicates the network time zone, default value is 8 <cid> Bearer profile identifier refer to AT+SAPBR <mode> <ul style="list-style-type: none"> 0 synchronize the modem with network time 1 report network time 2 report network time and synchronize the modem
Execution Command AT+CNTP	Response OK +CNTP: <result>[,<time>]
	Parameter <result> A numeric parameter which indicates the operation result: <ul style="list-style-type: none"> 1 Success 61 Net error 62 Dns error 63 Connect error

	<p>64 Timeout 65 Server error 66 Operation not allow</p> <p><time> String type(string should be included in quotation marks) value; format is "yy/MM/dd, hh:mm:ss", where characters indicate year (two last digits), month, day, hour, minutes, seconds .E.g. 6th of May 2010, 00:01:52 equals to "10/05/06,00:01:52"</p>
Reference	Note

3 Examples

SIM900 NTP module provides Network Time solution. The following is the examples for application.

3.1 Activate bearer profile

```
AT+SAPBR=3,1,"Contype","GPRS" //Set bearer parameter
```

OK

```
AT+SAPBR=3,1,"APN","CMNET"
```

OK

```
AT+SAPBR =1,1 // Activate bearer context
```

OK

```
AT+SAPBR=2,1
```

```
+SAPBR: 1,1,"10.89.193.1"
```

OK

3.2 Set NTP parameters and Get the network time

```
AT+CNTP="pool.ntp.org ",8,1,2
```

OK

```
AT+CNTP
```

```
+CNTP: 1,"13/04/18,14:38:30"
```

OK

3.3 Deactivate bearer profile

```
AT+SAPBR=0,1 // Deactivate bearer context
```

OK

Contact us:

Shanghai SIMCom wireless solutions Ltd.

Address: Building A, SIM Technology Building, No. 633 Jinzhong Road, Shanghai,
P. R. China 200335

Tel: +86 21 3252 3300

Fax: +86 21 3252 3020

URL: www.sim.com/wm