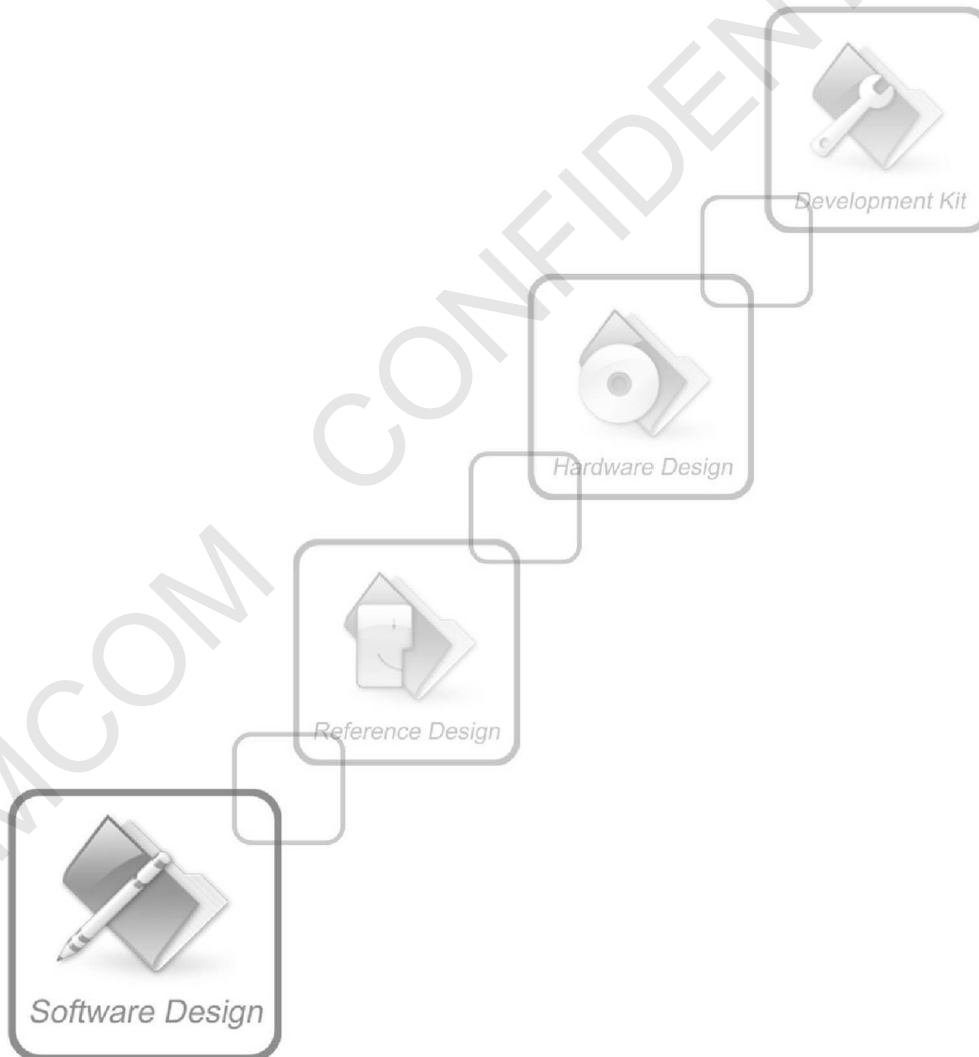

SIM5300E_EMAIL_Application Note



Document Title:	SIM5300E_EMAIL_Application Note
Version:	1.00
Date:	2016-11-04
Status:	Release
Document Control ID:	SIM5300E_EMAIL_Application Note_V1.00

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SCOPE

This document describes how to use the EMAIL function of SIM5300E through AT commands.

Examples are also given for reference.

This document can be used for SIM5300 serial modules, like SIM5300E.

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1. INTRODUCTION

This document presents the AT command of Email operation for SIM5300E. This document can apply to the same series of the modules which contain Email function, like SIM5300E, SIM5300ED, SIM5300EB and SIM5300EA.

1.1 FEATURES

- SIM5300E supports to send an Email with an attachment via SMTP protocol. It also supports carbon copy (abbreviated Cc:) recipient and blind carbon copy (abbreviated Bcc:) recipient.
- SIM5300E supports to retrieve and delete the Email via POP3 protocol, the Email may be with attachments.
- SIM5300E supports all of POP3 commands but APOP. By these POP3 commands, you can get the specific Email's size and unique-id.
- SIM5300E supports send an Email with multiple attachments via SMTP protocol, but the total size of these attachments can not be more than 300K.

1.2 REFERENCE

[1] SIM5300E AT Commands Set

[2] SIM5300E_TCPIP_Application Note

1.3 GLOSSARY

GPRS	General Packet Radio Service
IP	Internet Protocol
EMAIL	Electronic Mail
SMTP	Simple Mail Transfer Protocol
POP3	Post Office Protocol 3

2. EXAMPLES

SIM5300E module provides some AT commands that achieve the following function.

- Send an Email without attachment via SMTP protocol.
- Send an Email with an attachment via SMTP protocol.
- Send an Email with tow attachments via SMTP protocol.
- Retrieve and delete the Email via POP3 protocol.
- Get the specific Email's information (size and unique-id).

2.1 BEARER PROFILE

Demonstration	Syntax	Expert Results
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

2.2 SEND AN EMAIL

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set SMTP server address and port	AT+SMTPSRV="mail.sim.com",25	OK
Set user name and password	AT+SMTPAUTH=1,"john","123456"	OK
Set sender address and name	AT+SMTPFROM="john@sim.com","john"	OK
Set the recipient(To:)	AT+SMTPRCPT=0,0,"john@sim.com","john"	OK
Set the recipient(Cc:)	AT+SMTPRCPT=1,0,"john@sim.com","john"	OK
Set the recipient(Bcc:)	AT+SMTPRCPT=2,0,"john@sim.com","john"	OK
Set the subject	AT+SMTPSUB="Test"	OK
Set the body	AT+SMTPBODY=19 DOWNLOAD This is a new Email	OK
Send the Email	AT+SMTPSEND	OK +SMTPSEND: 1

2.3 SEND AN EMAIL WITH AN ATTACHMENT

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set SMTP server address and port	AT+SMTPSRV="mail.sim.com",25	OK
Set user name and password	AT+SMTPAUTH=1,"john","123456"	OK

	3456"	
Set sender address and name	AT+SMTPFROM="john@sim.com", "john"	OK
Set the recipient (To:)	AT+SMTPRCPT=0,0,"john@sim.com", "john"	OK
Set the recipient (Cc:)	AT+SMTPRCPT=1,0,"john@sim.com", "john"	OK
Set the recipient (Bcc:)	AT+SMTPRCPT=2,0,"john@sim.com", "john"	OK
Set the subject	AT+SMTPSUB="Test"	OK
Set the body	AT+SMTPBODY=19 DOWNLOAD This is a new Email	OK
Set the attachment	AT+SMTPFILE=1,"test.txt",0	OK
Send the Email	AT+SMTPSEND	OK
URC indicates that the attachment may be send.1360 is the max length of data which can be sent at a time. It depends on the network status.		+SMTPFT: 1,1360
SMTP client requests to send 100 bytes. Response will indicates that user must input 100 bytes for transferring now.	AT+SMTPFT=100	+SMTPFT: 2,100 //Input data OK
URC indicates that more data can be sent		+SMTPFT: 1,1360
The attachment has been transferred completely.	AT+SMTPFT=0	OK
URC indicates that the entire email has been send successfully		+SMTPSEND: 1

2.4 SEND AN EMAIL WITH TWO ATTACHMENTS

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set SMTP server address and port	AT+SMTPSRV="mail.sim.com",25	OK
Set user name and password	AT+SMTPAUTH=1,"john","123456"	OK
Set sender address and name	AT+SMTPFROM="john@sim.com", "john"	OK
Set the recipient (To:)	AT+SMTPRCPT=0,0,"john@sim.com", "john"	OK
Set the recipient (Cc:)	AT+SMTPRCPT=1,0,"john@sim.com", "john"	OK
Set the recipient (Bcc:)	AT+SMTPRCPT=2,0,"john@sim.com", "john"	OK
Set the subject	AT+SMTPSUB="Test"	OK
Set the body	AT+SMTPBODY=19 DOWNLOAD This is a new Email	OK
Use extend SMTP FILE method	AT+SMTPEXTFILE=1	OK
Create attachment "0.txt" with length 100 Bytes	AT+SMTPEXTFILE=2,0,"0.txt", 100	OK
Client requests to load 100 bytes to attachment "0.txt" User must input 100 bytes for Transferring.It is saved in the module	AT+SMTPEXTFILE=4,0,0,100,100000	DOWNLOAD //It is ready to receive data
		OK //All data has been received
Create attachment "1.amr"	AT+SMTPEXTFILE=2,1,"1.amr"	OK

with length 14342 Bytes	”,14342	
Client requests to load 100 bytes to attachment “1.amr” User must input 14342 bytes for transferring.It is saved in the module	AT+SMTPEXTFILE=4,1,0,14342,100000	DOWNLOAD //It is ready to receive data OK //All data has been received
Send the Email	AT+SMTPSEND	OK
URC indicates that the entire email has been send successfully		+SMTPSEND: 1

2.5 SEND A UTF-8 EMAIL

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set the mail charset	AT+SMTPPCS=”UTF-8”	OK
Set SMTP server address and port	AT+SMTPSRV=”mail.sim.com”,25	OK
Set user name and password	AT+SMTPAUTH=1,”john”,”123456”	OK
Set sender address and name	AT+SMTPFROM=”john@sim.com”,”john”	OK
Set the recipient(To:)	AT+SMTPRCPT=0,0,”john@sim.com”,”john”	OK
Set the recipient(Cc:)	AT+SMTPRCPT=1,0,”john@sim.com”,”john”	OK
Set the recipient(Bcc:)	AT+SMTPRCPT=2,0,”john@sim.com”,”john”	OK
Set the subject	AT+SMTPSUB=”54455354”	OK
Set the body	AT+SMTPBODY=38 DOWNLOAD 546869732069732061206E6	OK

	57720456D61696C	
Send the Email	AT+SMTPSEND	OK +SMTPSEND: 1

2.6 RETRIEVE THE EMAIL

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set POP3 server and account	AT+POP3SRV="mail.sim.com" ,"john","123456",110	OK
Log in POP3 server	AT+POP3IN	OK +POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK +POP3NUM: 1,2,11124
Get the specific Email's size	AT+POP3LIST=1	OK +POP3LIST: 1,1,5556
Retrieve the specific Email	AT+POP3CMD=4,1	OK +POP3CMD: 1
Get the Email content	AT+POP3READ=1460 ... AT+POP3READ=1460	+POP3READ: 1,1460 +OK ... OK +POP3READ: 1,1460 +OK ... OK
The Email's content is read	AT+POP3READ=1460	+POP3READ: 2,1183

completely		+OK ... OK
Log out POP3 SERVER	AT+POP3OUT	OK +POP3OUT: 1

2.7 DELETE THE EMAIL

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set POP3 server and account	AT+POP3SRV="mail.sim.com" ,"john","123456",110	OK
Log in POP3 server	AT+POP3IN	OK +POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK +POP3NUM: 1,2,11124
Mark the Email to delete	AT+POP3DEL=1	OK +POP3DEL: 1
Log out POP3 SERVER	AT+POP3OUT	OK +POP3OUT: 1

2.8 GET THE EMAIL'S SIZE AND UNIQUE-ID

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK

Set POP3 server and account	AT+POP3SRV="mail.sim.com" ,"john","123456",110	OK
Log in POP3 server	AT+POP3IN	OK +POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK +POP3NUM: 1,2,35797
Get the specific Email's size	AT+POP3LIST=1	OK +POP3LIST: 1,1,16601
Get the specific Email's unique-id	AT+POP3UIDL=1	OK +POP3UIDL: 1,1, AAAF0pdCAA60+tkFq Rqk3/6ogog+g
Log out POP3 SERVER	AT+POP3OUT	OK +POP3OUT: 1

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