AUTHOR

David Henry mgadriver@gmail.com

SMTP API

bool SmtpOpenGprs(int cid,char *apn);

Starts an internet session for SMTP.

The SIM900 can simultaneously support the channels of communication (Bearer Profiles) numbered 1,2 or 3. You are expected to know which profiles are in use as the SMTP class does not. The APN is specific to your mobile phone carrier.

bool SmtpSetSSL(bool onoff);

Turns encryption on and off.

bool SmtpSetServer(char *name_str, int port);

Get the name of your mail server and port number from your mail supplier.

bool SmtpSetLogin(char *login_str,char *password);

Set the login details for sending e-mail. Note that the password here is in plain text so is a security issue. I suggest that you setup a mail account purely for use of this sketch. Make sure that its password is unique and does not correspond to any other of your accounts.

See NOTES & ISSUES below

bool SmtpSetSender(char *address,char *name);

Set he email address and nickname of the Sender.

bool SmtpSetRecipient(enum eSMTPRCPT, int index, char *address,char *name);

Set the email address and nickname of each recipient. smtp.TO, smtp.CC and smtp.BCC types of recipients are all supported. Index is the index in the list of each type of recipient e.g. to send a mail to 1 TO and 3 BCC recipients do:

> SmtpSetRecipient(smtp.TO,0,"....","....")
>
> SmtpSetRecipient(smtp.BCC,0,","....")
>
> SmtpSetRecipient(smtp.BCC,1,","....")
>
> SmtpSetRecipient(smtp.BCC,2,","....")

bool SmtpTimeout(int seconds);

Set the timeout value for a response from the server.

bool SmtpSetCS(eSMTPCS cset);

cset may be smtp.ASCII or smtp.UTF8. Note that UTF8 has not yet been tested.

bool SmtpSetSubject(char *sj);

Set the subject line of the email.

bool SmtpSendBody(char *text);

Send the body of email as a single block of text. Up to 4K is allowed by SIM900.

bool SmtpCloseGprs(int cid);

Close the internet session.

NOTES and CAVEATS.

There are some issues with using the SIM900 which, frankly, I do not understand. I am not sure if it is a SIM900 firmware issue or a power supply issue.

For example, in the SmtpSetLogin function, if the login or password string contains non-alphanumeric characters, calling the function causes the SIM900 to reset. I created an account on Yahoo with name and password using just A-Z and 0-9 characters. That seemed to work OK. Names including underscores demonstrated the problem.

Actually this issue has more implications as I started to develop a Telegram class but had to stop because of this behaviour.

Your feedback is most welcome.

This class was developed using an Tinyos shield bought on Ebay.