

Application Note

>> ANw11.2: Features Description for eDsoft-w302 v1.0

TARGET	B40h-09gg + eDsoft-w302 v1.0
NEED	List the major new features that have been introduced.

FEATURES

<p>Selecting the GSM or GPRS mode</p> <p>AT# parameters</p>	<p>It is possible to select the GSM or GPRS mode for connecting to the Internet. In GPRS mode allows for outgoing GPRS connection to the Internet. The GSM mode allows to receive GSM incoming call for PPP connections.</p> <p>GPRSMODE</p>
<p>Connection to the Internet in GSM mode</p> <p>AT# parameters</p> <p>AT# commands</p>	<p>The Wavecom product embeds the PPP protocol which allows to connect to any standard Internet Service Provider (I.S.P.) in the world. The PPP authentication is performed by PAP or CHAP protocol and allows to receive a temporary dynamic IP address from the ISP. As it is GSM/GPRS, the outgoing connections can be selected as GSM mode or GPRS mode for access to the Internet, using the GPRSMODE parameter.</p> <p>ISPUN - ISPPW, DIALN1, DIALN2, DIALSELECT</p> <p>CONNECTIONSTART, VPHY</p>
<p>Connection to the Internet in GPRS mode</p> <p>AT# parameters</p> <p>AT# commands</p>	<p>The Wavecom product embeds the GPRS protocol which allows to connect to an A.P.N. which provides Internet access.</p> <p>GPRSMODE, APNSERV, APNUN, APNFW</p> <p>CONNECTIONSTART, VGPRS</p>
<p>Connection in a transparent mode</p> <p>AT# parameters</p>	<p>It is possible to connect to a modem in a transparent mode without using the Internet protocols</p> <p>PPPMODE</p>
<p>Connection supervision</p> <p>AT# parameters</p>	<p>The software embeds a supervision layer which provides ways to automatically re-attempt the GSM data connection to the ISP (or to the remote modem in transparent modem mode) if it was not a success : busy network, busy ISP, no answer from the ISP.</p> <p>REDIALCOUNT, REDIALDELAY</p>
<p>PPP server/incoming call</p> <p>AT# parameters</p>	<p>A user may want to use a standard PPP client (like MS Dial-up Networking) to access the Wavecom product directly. In this case, the user must configure his or her computer (equipped with a modem) with the phone number related to the Wavecom device, instead of the one of a standard ISP.</p> <p>Once authenticated, a direct PPP link is opened between the Wavecom product and the remote computer.</p> <p>PPPMODE, PPPSERVUN, PPPSERVPW, PPPMYIP, PPPPEERIP, VPPP</p>
<p>Domain Name Service</p> <p>AT# parameters</p>	<p>The DNS servers available on the Internet or within an Intranet are used to resolve a symbolic hostname (like mail.domain.com) into an IP address (192.168.255.250).</p> <p>DNSSERV1, DNSSERV2, VDNS</p>

>> ANw11.1: Features Description

Incoming call

The Wavecom product allows to manage incoming calls in different ways depending on the host requirement.

When an incoming call is received and accepted –if connected to the GSM network- the Wavecom product directly switches in GSM mode.

AT# parameters RINGCOUNT, CALLSCREENUM, CALLBACKTIMER, ANSWERMODE, PPPMODE
AT# commands ACCEPT, VPHY, VPPP

Socket TCP

The Wavecom product provides a TCP socket API that allows the user to open a TCP session with a remote host. The user can freely configure the IP address and TCP port of the remote server.

AT# parameters TCPSERV, TCPPORT
AT# commands LTCPSTART, LTCPSTOP, OTCP, VTCP

Sending an email combination

Sending an email composed by a pre-defined combination of parameters

AT# parameters SMTPSERV, SMTPPORT, SENDERADDR, SENDERNAME, DOMAIN, REC1/REC2/REC3, CCREC1/CCREC2/CCREC3, BODY1/BODY2/BODY3, SUBJ1/SUBJ2/SUBJ3
AT# commands SENDMAIL1 / SENDMAIL2 / SENDMAIL3, VMAIL1, VMAIL2, VMAIL3

Sending a data flow into an email

Sending an email message containing data from the serial port

AT# parameters SMTPSERV, SMTPPORT, SENDERADDR, SENDERNAME, DOMAIN, REC1, CCREC1, SUBJ1
AT# commands PUTMAIL, VSMTF

Retrieving an email

This command allows another processor (attached equipment) to instruct the Wavecom product to retrieve an email message from a POP3 account

AT# parameters POP3SERV, POP3PORT, POP3UN, POP3SERV, POP3HEADERMODE
AT# commands GETMAIL, VPOP3

Uploading a file by FTP

Uploading a file to a remote FTP server

AT# parameters FTPSERV, FTPPORT, FTPUN, FTPPW, FTPPUTPATH, FTPPUTFILE
AT# commands FTTPUT, VFTP

Downloading a file by FTP

Downloading a file from a remote FTP server

AT# parameters FTPSERV, FTPPORT, FTPUN, FTPPW, FTPGETPATH, FTPGETFILE,
AT# commands FTPGET, VFTP

LIMITATIONS
