

## Release Notes for MT100SEM-IP Firmware Version 0.14E to 0.22E

Code Version 0.22E dated 11/30/2010 at 17:24:25

### **\*\*BUG FIXES\*\***

Fixed bug where a TCP client call on in-use port would reset the module.

#UDPIGNORESRCPORT works correctly by allowing any UDP packet with same IP to be received.

#TCPSPORT, #UDPSPORT, #KEEPALIVEPORT, #SMTPSPORT, #POP3PORT, #FTPSPORT, and #GPSPORT have been range corrected to 1-65535 (previously, 0 was allowed).

#TCPSPORT, #UDPSPORT, #KEEPALIVEPORT and #GPSPORT have been defaulted to 1 (previously, 0).

Correct zero window issue where multiple ACKs are sent (affects TX performance).

Clean up the UDP and TCP client flush timer behavior. Timer starts on character received from user and resets after transmission.

Clean up internal initialization issues noticed while correcting the #CONNECTIONSTOP issue.

AT#FTPTYPE command has been fixed to only accept "I" and "A" values.

#FTPTYPE? and #AUTHENT? have been corrected to produce quote encased responses i.e. (AT#FTPTYPE? => #FTPTYPE: "A").

If #LUDPSTART or #LTCPSTART has been issued but no connection has been made yet, an error message is produced if the physical connection is disconnected.

Allow flash wizard to update once this firmware is installed.

Change default DNS server to 8.8.8.8 if none are supplied.

### **\*\*ENHANCEMENTS\*\***

Put hostname option in DHCP discovery packet.

Allow crafting of UDP packets when using the #UDPPACKETMIN and #UDPPACKETMAX commands with the UDP raw client.

Allow crafting of TCP packets when using the #TCPPACKETMIN and #TCPPACKETMAX commands with the TCP raw client.

Performance enhancements in FTP, SMTP, TCP and UDP operating modes.

### **New Commands:**

#UDPREMOTEPORT: Allow the user to override the remote port.

#VSHOWUPTIME: Display the current uptime in days:hours:minutes:seconds.

#VSHOWUPTIMES: Display the current uptime in seconds.

#HOSTNAME - Allow a hostname to be configured for DHCP, 64 char max.

#UDPPACKETMIN - Set a min packet length to send out, default is 65535 which forces the TXDELAY timer or max buffer to control the packet length.

#UDPPACKETMAX - Set a max packet length to send out, default is 65535 which allows packet to be as large as the UIP UDP payload size.

#TCPPACKETMIN - Set a min packet length to send out, default is 65535 which forces the TXDELAY timer or max buffer to control the packet length.

#TCPPACKETMAX - Set a max packet length to send out, default is 65535 which allows packet to be as large as the Universal IP TCP payload size.

#TCPPACKETMIN=n - Queries TCP profile n where n can be 1 or 2.

#TCPPACKETMAX=n - Queries TCP profile n where n can be 1 or 2.

#FTPLISTGET - Retrieve #FTPGETPATH directory listing from the ftp server.

#FTPLISTPUT - Retrieve #FTPPUTPATH directory listing from the ftp server.

#FTPDELETE - Delete file from ftp server using the #FTPPUTPATH and #FTPPUTFILENAME parameters.

#AUTOSAVE - Disable or enable (default) the auto saving of the Universal IP configuration parameters.

#WRITEFLASH - Force the Universal IP configuration RAM variables to be written to NVRAM, used in conjunction with #AUTOSAVE=0.

#TCPNETWORKTIMER - Set a timer value that so the TCPRAW socket will disconnect if data is unable to be transmitted, default is 30.

#TCPNETWORKTIMER=n queries TCP profile n where n can be 1 or 2.

#TCPTELNETMODE – Option for TELNET client to connect to the serial port (with LTCPPSTART except handle telnet items).

0 = TCP raw mode, no login (default)

1 = TELNET mode, login required

2 = TELNET mode, no login required

3 = TCP raw mode, login required

#TCPTELNETUN - Configure the login username for the telnet listener or TCP raw mode.

#TCPTELNETPW - Configure the login password for the telnet listener or TCP raw mode.

#VSHOWSERIAL - Show the RS-232 signal status of the user serial port.

#UDPIGNORESRCPORT - Allow the remote user to send from a different port then the original.

#SHIELDCHAR - Change the default shield character (0x10).

#ESCAPECHAR - Change the default escape character (0x03).