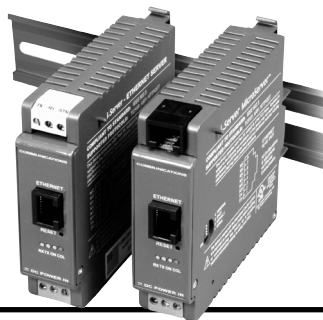
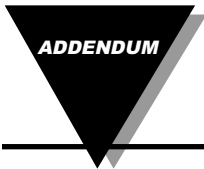


iSERVER - ADDENDUM

For units with Firmware Version 3.1



These changes are the result of the following product enhancement:

- Additional selections in the Configuration Web Page, including: Modbus/TCP/IP, TCP/UDP, Connection Control and Connection Timeout.
- Look at the Serial Label on your unit for the Firmware Version number, it should be 3.1.
- If you have purchased your iServer in the past, you may upgrade the firmware with the EIS-FW-CA kit. Please contact the Sales department please (1-800-639-7678 or 714-540-4914) for assistance.

This addendum applies to Section 4.1.4, 4.4, and 4.5 in your iServer Operator's Manual.

Section 4.1.4 - Configuration

Section 4.4 - Terminal Server Function

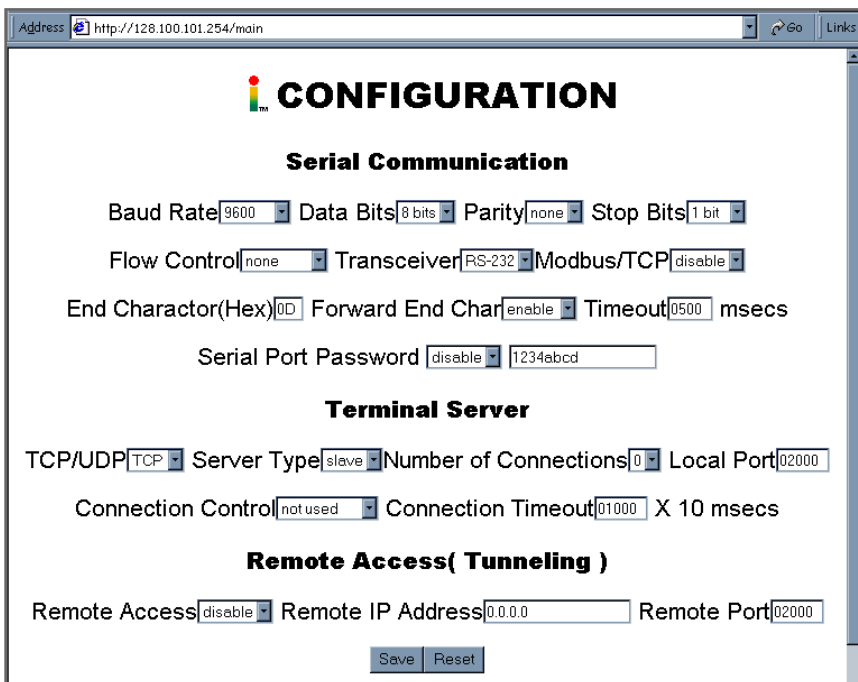


Figure 4.9 Configuration Menu

Figure 4.17 Terminal Server Configuration

Section 4.5 - Telnet Setup

```
Firmware Version 3.1
Admin Password:00000000

Admin. Login Successful
P

                                Configuration
                                Firmware Version 3.1

BD = 9600 (5)
PT = none(0)
ST = 1 bit (0)
DT = 8 bits (1)
MD = RS-232 (0)
TO = 0500
TT = slave(1)
TN = 0
HN = eis13e6
IP = 128.100.101.254
LP = 12345678
SP = 00000000
TP = iServer(0)
RE = disable(0)
RI = 0.0.0.0
RP = 02000
GW = 0.0.0.0
SM = 255.255.0.0
EC = 0D
PP = 02000
FC = none (0)
MB = disable(0)
TU = TCP (0)
CC = not used(0)
CT = 01000
FE = enable (1)
EP = disable(0)
CP = 1234abcd
WB = enable (1)
MAC=00:03:34:00:13:E6
```

Figure 4.19
Telnet Setup - iServer Configuration Page

The following describes the changes in the iServer firmware releases, including problems fixed and new features added since version 2.9.

Version 3.1 released June 20, 2003

Problems Fixed

1. ACK to ACK loop between two iServers mostly observed in tunneling mode. This bug forces the two iServers get into a locked connection with continuous back and forth ACK packets.

Features Added

1. Port 23 can be used for the iServer's Local Port (default is 2000). Local Port 23 in the iServer will direct a Telnet connection destined to the IP address of the iServer right into its serial port.
2. An option added in the Web server's "Access Control" menu and port 2002 connection to disable Web server access (default is enable). Power reset is required to take effect.
3. The "End Character" for the incoming serial data can now be sent out to the LAN as part of the data.
4. Enhanced the look of the Web server to provide a better and easier user interface.
5. The Java Applet in the "Terminal Server" page supports CR.
6. The "hello world" text is removed from the "Terminal Server" page.
7. Added password option for the network connection into the serial port. This is functional for only one connection.
8. Added the following commands to port 2002 connection; 1. "FE" (forwarding the end character to the LAN), "EP" (enabling password for the serial port), "CP" (changing password for the serial port), and WB (enable/disable Web server access)
9. Increased the "Host Name" length to 18 characters.

Version 3.0 released April 23, 2003

Problems Fixed

1. In the "End Character" field, the iServer did not take a hex number with the first byte other than 0 (0x20).
2. Optimizing the transmit signal in the RS485 mode.
3. The 115kps baud rate was not consistently operating.
4. The Modbus/TCP exception code was not in the correct format.
5. In UDP mode, the iServer was sending additional bytes in the network packet
6. The timer control for transmit and receive LED's (on/off status) was optimized.
7. The java script bug on the npsetpt.htm. (The 11.1 number display as 11.1.1).
8. TCP connection going over the routers was optimized.
9. Login via Telnet (port 2000) to select RS485 option caused Modbus/TCP to become enabled.
10. Optimizing the code for Modbus/TCP; breaking down 'sending' and 'receiving' instead of having them in one function call.
11. If the "Number of Sockets (Connections)" were set to 1, after the TCP connection to that socket was taken down, reconnecting to the same socket would not be possible. The iServer was not closing the socket properly after the TCP connection to that socket was closed.

Features Added

1. The "Timeout" field is enhanced so that the serial packets (RS232 only) can be sent to the LAN based on a timer. For example, the Timeout is set to 200ms, this means that if the iServer does not receive any serial data for 200ms, it then sends out the data that it had buffered to the LAN.
2. the iServer starts buffering the serial data,
3. The serial buffer will be flushed when the TCP connection is down.
4. When the DHCP is enabled, the message "DHCP look for IP...found." will be displayed on the serial port of the iServer if a CR is entered.
5. Within 5 seconds after the power up, sending 3 Ctrl A's through the serial port will put the iServer into Command mode (no need to put dip switch 1 to on position).
6. Within 5 seconds after the power up, sending CR through the serial port will display the iServer's configurations.
7. Assigning gateway address (GW command) and subnet mask (SM command) from the serial port.
8. Cosmetic graphical and text changes in the Web server.
9. The inactivity timer for connection to port 2002 is 2 minutes. If there is no activity for 2 minutes, the connection will automatically be dropped.
10. Control signals (DTR, DCD, CTS, and RTS) are added for connections or/and disconnections.
11. Modbus/TCP protocol is supported. This option needs to be enabled (disabled by default) in the "configuration" page. Port 502 is the standard Modbus/TCP port number.
12. An IP address can be assigned to an iServer using ARP command and the HTTPGET program. Use the ARP command as follow; `arp -s x.x.x.x nn-nn-nn-nn-nn` - where x.x.x.x is the IP address and nn-nn-nn-nn-nn is the iServer's MAC address. Use the HTTPGET program to assign the IP address to the iServer as follow; `httpget -r -S "00000000" x.x.x.x:1` - where "00000000" is the default admin password or it can be any admin password the user assigns in the iServer. In case of no password, it should be "". The HTTPGET program is supplied by NEWPORT.
13. Modified the TCP/IP stack for optimized operability.
14. Directed or broadcast UDP protocol is supported. The UDP mode can be selected in the configuration page of the iServer. If the iServer sends the UDP packet to 255.255.255.255 address, the transmission will be broadcast UDP and if the iServer sends the UDP packet to a specific IP address, the transmission will be directed UDP.
15. The iServer can be remotely power reset by Telneting to port 2002 and typing the word "reset".