



CMX-MicroNet™

*Embedded Internet Demonstration
for the*

*Technological Arts Adapt9S12E128
Board with LAN Interface Card*



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Getting Started - *IP Address*

The IP address of the Adapt9S12E128 board is set to:

`http://216.233.5.50`

The IP address of your PC should be temporarily set to:

`216.233.5.32`



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Getting Started - *IP Address*

To temporarily change your PC's IP address, go to *My Computer, Control Panel, Network, TCP/IP* and select the *IP Address* tab.

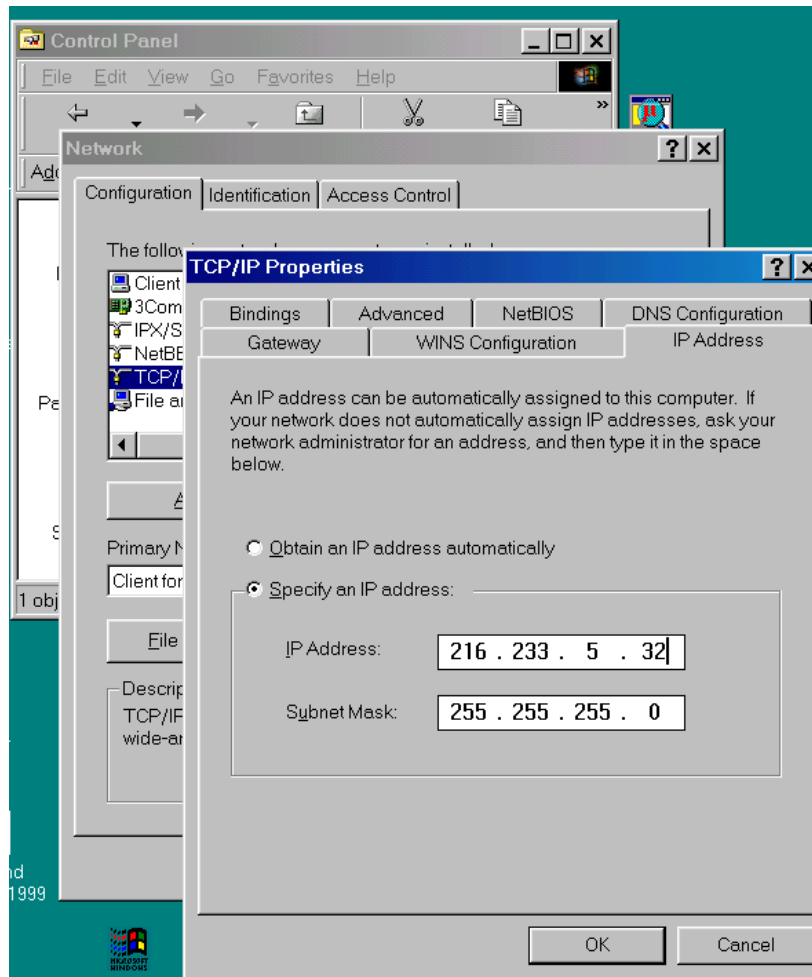
Then select the *Specify an IP Address* radio button, write down your current values so that they can be restored later, and then enter 216.233.5.32 for the *IP Address* and 255.255.255.0 for the *Subnet Mask*.

You will have to re-start the PC after changing the TCP/IP settings.



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Getting Started - *IP Address*



**These are the
dialog boxes
that you
should see on
your PC as
you change its
IP Address.**



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Getting Started - *Hardware*

- **The Adapt9S12E128 board can be directly connected to a PC using an Ethernet crossover cable or both the PC and the target hardware can be connected to a Hub using standard Ethernet cables.**
- **Set up the board per the Technological Arts *Using Your Adapt9S12E128 Microcontroller Module* Guide.**



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Getting Started - *Software*

- **These instructions are for using the demo with the Technological Arts uBug12 program.**
- **Connect a serial cable from the PC to the board.**
- **Set the RUN/LOAD switch on the board to LOAD.**
- **Run uBug12.exe.**
- **In the command box enter *con 1* if the serial cable is connected to COM1 on the PC or enter *con 2* if the serial cable is connected to COM2.**



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Getting Started - *Software* (cont.)

- In the command box enter *fbulk*.
- Next click *Load SRecord* in the *File* menu, click *S19/Banked*, then select the .sx file to be downloaded and click the *Open* button.
- After the download is complete enter *reset* in the command box and then enter *go*.
- To examine the variable at address 0x2000 enter *halt* and then enter *md 0x2000* in the command box.



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Getting Started - *Browser*

Now Run Internet Explorer or your favorite browser and enter

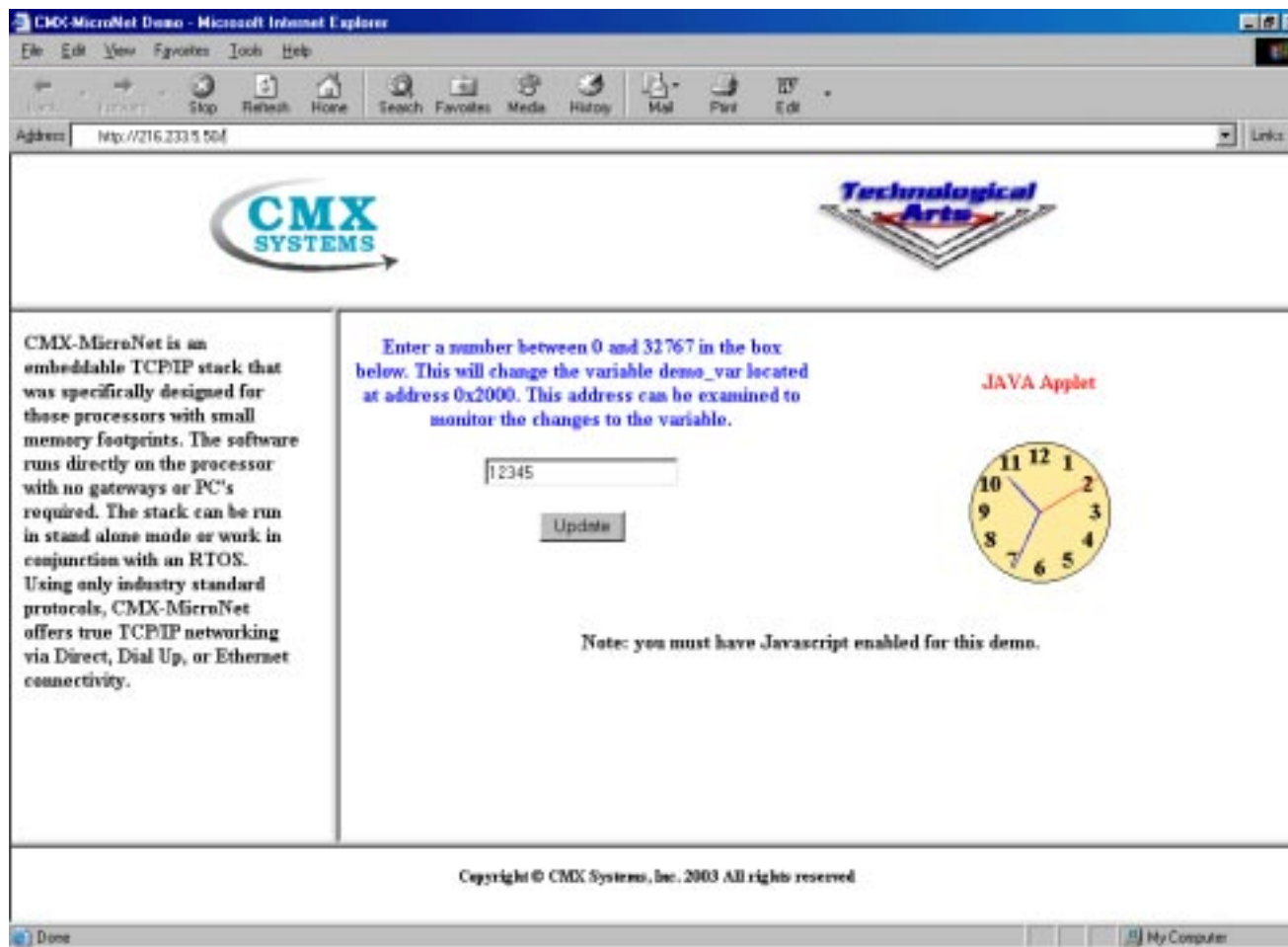
`http://216.233.5.50`

in the location/address box.



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Using the Demo

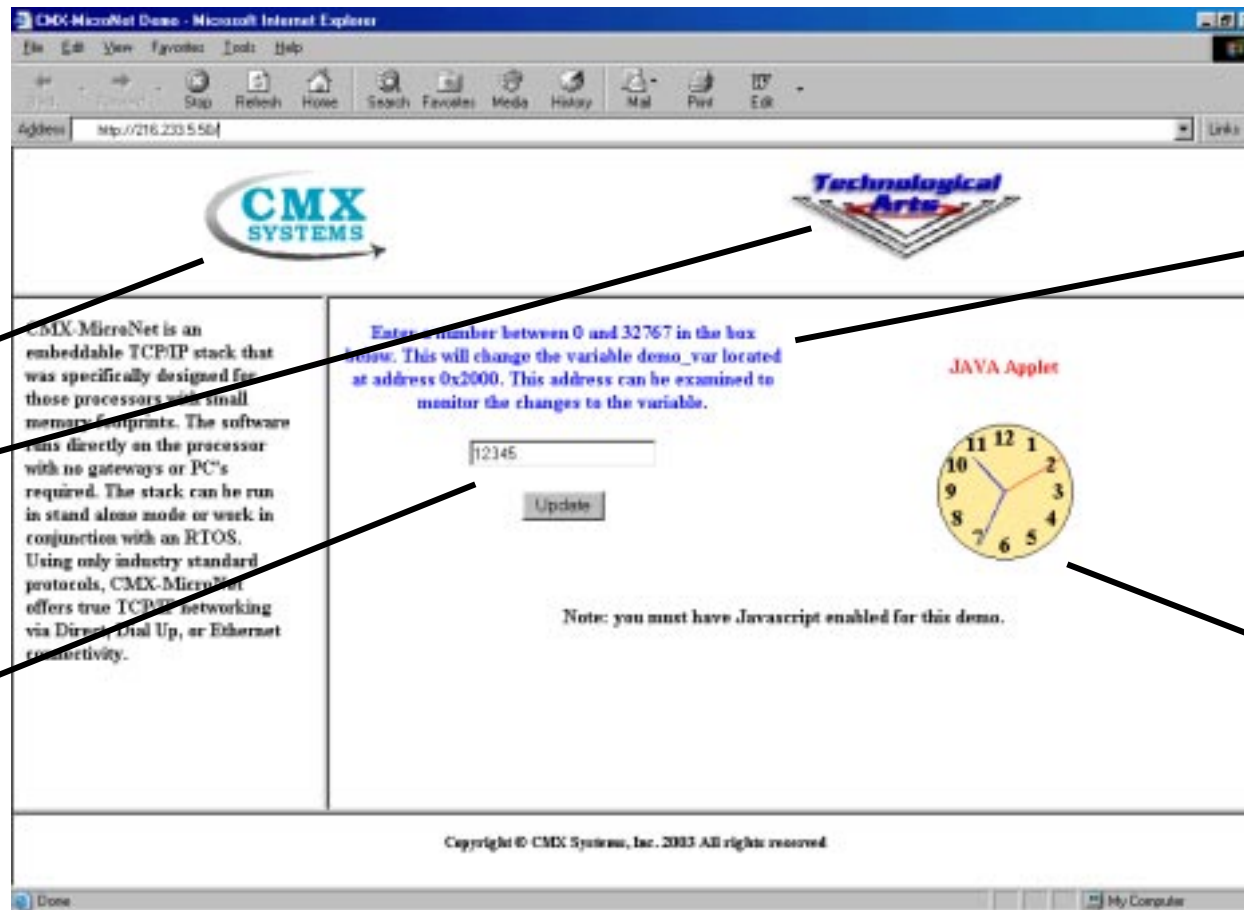


Once the web page is finished loading, this is what it should look like. Please note that the *demo_var* variable value will have the value of **12345** at start up.



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Using the Demo - *Web Server!*



**Graphics
Files**

Text

**Web
Form**

**Java
Applet**



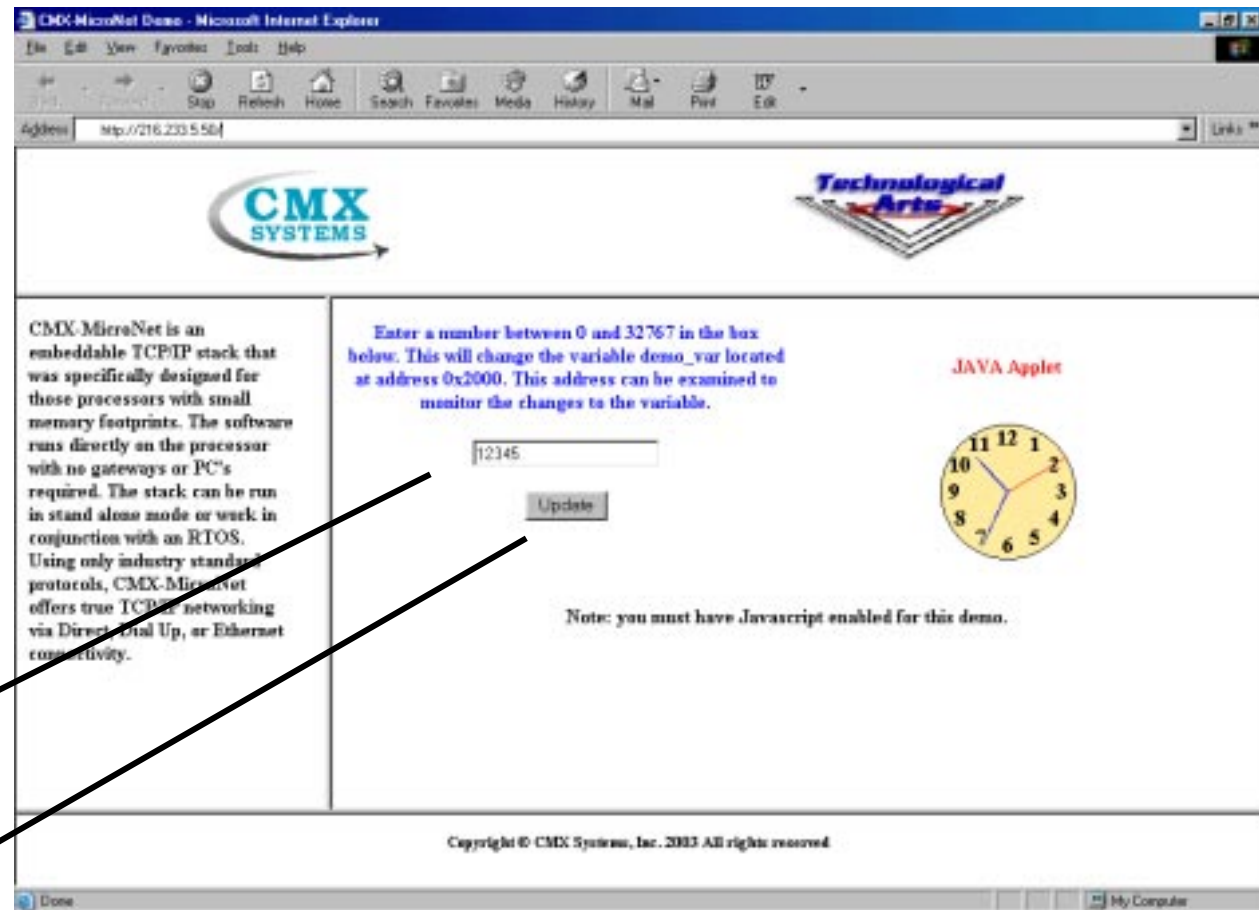
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Using the Demo - *Communication*

Enter a number between 0 and 32767 in the *Text Field*. Then press *Update*. This will change the variable *demo_var* located at address 0x2000. This address can be examined to monitor changes to the variable.

Text Field

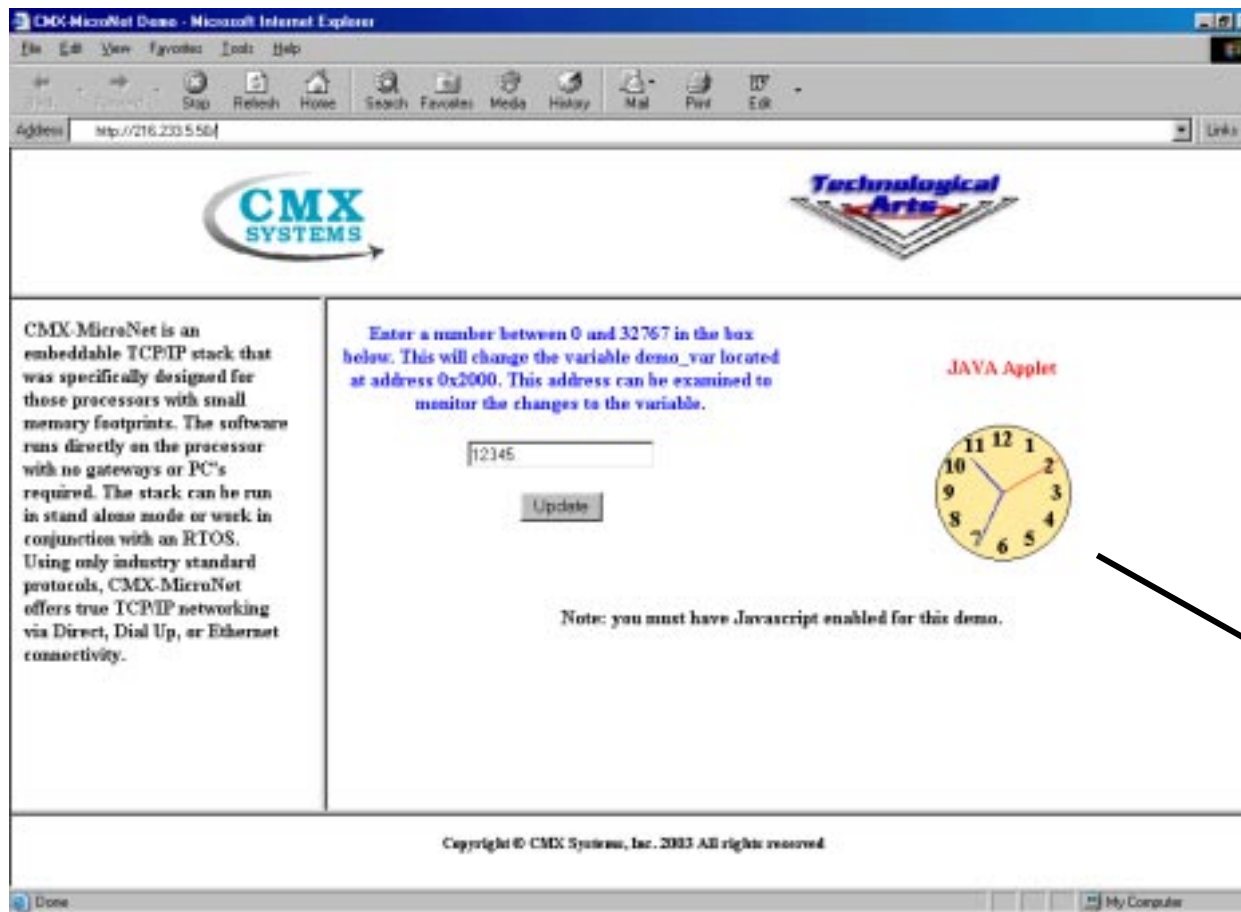
Update Button





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Using the Demo - *Communication*



The Clock is a standard Java applet developed by Sun Microsystems and is used with only minor changes to the code.

Clock



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Ending the Demo

- **Once you have finished running the demo, please remember to change your PC's TCP/IP settings back to their original values (see pages 2 - 4 of these instructions for details about this.)**
- **If you have any questions about running the CMX-MicroNet demo or purchasing the full software, please contact CMX Systems at:**

**CMX Systems, Inc.
12276 San Jose Blvd.
Suite 119
Jacksonville, FL 32223**

**904-880-1840 (tel)
904-880-1632 (fax)
cmx@cmx.com**

<http://www.cmx.com>