M52233DEMO – Quick Start Guide

Box Contents



RS232 Cable

CodeWarrior CD (may be newer version)



Debugger Cable

Ethernet <u>Crossover</u> Cable



M52233DEMO board

Step 1 – Install CodeWarrior



The Setup program will automatically Start when the CD is inserted



Select "Launch the Installer" then follow the directions for a typical installation



USB connector for Debugger

Ethernet Connector RS232 Connector

Step 3 – Power-up the board via USB, by plugging it into your PC, with the debugger cable



Step 4 – Turn on power switch

Note: If your starts (blinking – all the led's flashing) then turn the switch off then on again.



Amber and Green LED's should be on

Step 5 – Open Hyper-terminal on the PC



Start -> Programs -> Accessories -> Communications -> Hyper-terminal

Step 6 – Configure Hyper-Terminal for 115200, 8 bits, no flow control, 1 stop bit

| Connection Description | ? X Connect To ? X |
|---|---|
| New Connection | Airect |
| Enter a name and choose an icon for the connection: | Enter details for the phone number that you want to dial: |
| Name: | Country/region: United States (1) |
| | Årea code: 847 |
| | |
| - No 😒 🔅 👘 | Phone number: |
| | Connect using: COM1 |
| OK Can | ancel OK Cancel |
| COM1 Properties | ? × |
| Port Settings | |
| | |
| Bits per second: | nd: 115200 |
| Data bits: | its: 8 |
| | |
| Parity: | ity: None |
| Stop bits: | its: 1 |
| Flow control | at None |
| | |
| | Restore Defaults |
| | |
| | OK Cancel Apply |
| Disconnected Auto detect Auto detect SCROLL | CAPS NUM Capture Print echo |

If Hyper-Terminal shows "Auto-detect" then it did not configure correctly. Select the sicon to disconnect, then goto files -> properties in the Hyper-Terminal window, click on the configure button which will open a panel like the "COM1 Properties" above. Verify the configuration is as pictured above, then select OK. Then just hit enter in the Hyper-Terminal Window.

Connected 0:00:33 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo

This is what the status bar under the Hyper-Terminal window should look like.

Step 7 – Connect the RS232 connector to the board.



Step 8 – Setting up TCP/IP on the PC

Start -> Settings -> Network Connections -> Local Area Connection

| | Ö t | IE & PPT Selector | | | | | |
|--------|------------|---------------------|----|--|---|------|--|
| | • | Programs 🕨 | | | | | |
| | Ż | Favorites • | | | | | |
| | ٢ | Documents • | | | | | |
| Inal | 1 | Settings 🕨 | G | Control Panel | • | | |
| fessio | P | Search • | 1 | Network Connections Printers and Faxes | • | 2 | Network Setup Wizard New Connection Wizard |
| Pro | ? | Help and Support | | Taskbar and Start Menu | | 4 | 1394 Connection |
| s XP | | Run | | | | | Local Area Connection Local Area Connection 3 |
| wopu | P | Log Off ericgregori | | | | 4 | VMware Network Adapter VMnet1 VMware Network Adapter VMnet8 |
| Ň | 0 | Shut Down | 12 | | | (ip) | Wireless Network Connection Internet Connection |

| 🚽 Local Area Connection Properties 🛛 🔹 🔀 | Internet Protocol (TCP/IP) Properties |
|---|---|
| General Advanced | General |
| Connect using: Broadcom NetXtreme 57xx Gigabit C Configure | You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. |
| This connection uses the following items: | Obtain an IP address automatically Use the following IP address: IP address: I92.168.1.1 Subnet mask: 255.255.0 Default gateway: Obtain DNS server address automatically |
| Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. | Use the following DNS server addresses: Preferred DNS server: |
| Show icon in notification area when connected Notify me when this connection has limited or no connectivity OK Cancel | Alternate DNS server: Advanced |

Before making the following changes, please note your original TCP/IP settings.

This will setup your PC for a static IP address, 192.168.1.1

Step 9 – Connect the Ethernet <u>crossover</u> cable to the board and PC, reset the board.



Step 9 – Verify splash screen on Hyper-Terminal.

| 🇞 d - HyperTerminal | |
|--|-----|
| File Edit View Call Transfer Help | |
| | |
| Running ColdFire TCP/IP-Lite stack Copyright 2006 by Freescale Semiconductor Inc. Use of this software is controlled by the agreement found in the project LICENSE.H file. Built on Aug 28 2007 16:33:05 Heap size = 25088 bytes IP Address = C0A80163 Gateway = C0A80101 Mask = FFFFF00 etheraddr = 00:BR:DB:AD:01:02 Starting ints. Calling netmain() InterNiche ColdFireLite TCP/IP for Coldfire, v3.0 Copyright 1997-2006 by InterNiche Technologies. All rights reserved. Preparing device for networking Ethernet started, Iface: 0, IP: 192.168.1.99 IP address of : 192.168.1.99 INET>_ | |
| Connected 0:15:50 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo | 11. |
| This is the IP address of the board | |

Step 10 – Open Internet Explorer, view IP address 192.168.1.99

Type 192.168.1.99 in address bar:



Step 11 - Troubleshooting

(Skip this step if the web page from step 10 appears in Internet Explorer)

- 1) Verify board is turned on, and all cables are plugged in
- 2) Verify PC TCP/IP setting match those of step 8
- 3) Verify correct IP address entered in correct format on address line (step 10)
- 4) Verify Internet Explorer has proxy settings disabled
 - a. Tools -> Internet Connection -> Connections -> Lan Setting

| Setup. | Setup. | Local Area Network (LAN) Settings | 2 |
|--|--|--|---|
| Dial-up and Vitual Private Network settings | | - Automatic configuration | |
| | Add | Automatic configuration may override manual settings. To use of manual settings, disable automatic configuration. | s ensure the |
| | Berezve | Automatically detect settings | |
| Choose Settings if you need to configure a proxy on the for a connection. | Settings | Use automatic configuration script | |
| @ Deverdal normation | | Address | |
| C Did wherever emotivals correction is not press C diverse did the closely correction | et in the second se | Proxy server | |
| Current None | Set.Default | Use a proxy server for your LAN (These settings will n dial-up or VPN connections). | ot apply to |
| | | Address: www.gabe0.fmes Part: 1080 A | wenced |
| Local Area Network (LAN) settings | | Bypers providence for local addresses | |
| LAN Settings do not apply to dial-up connections. | LAN Settings. | | |
| Choose Settings above for dial-up settings. | | | Convel |
| | | | - B - B - B - B - B - B - B - B - B - B |

Step 12 – Running a lab

To run a lab, simply click on the URL for the lab.

When done with the lab, use the back button to go back to the front page.



Analog Data Dials

On occasion, Internet Explorer may hang when jumping between AJAX labs. If this occurs, just close Internet Explorer and re-open.

Other Labs



Explanation of Dynamic HTML

LED control Lab



Dynamic HTML Demo





Bargraph Data Display in AJAX

Analog Data graph