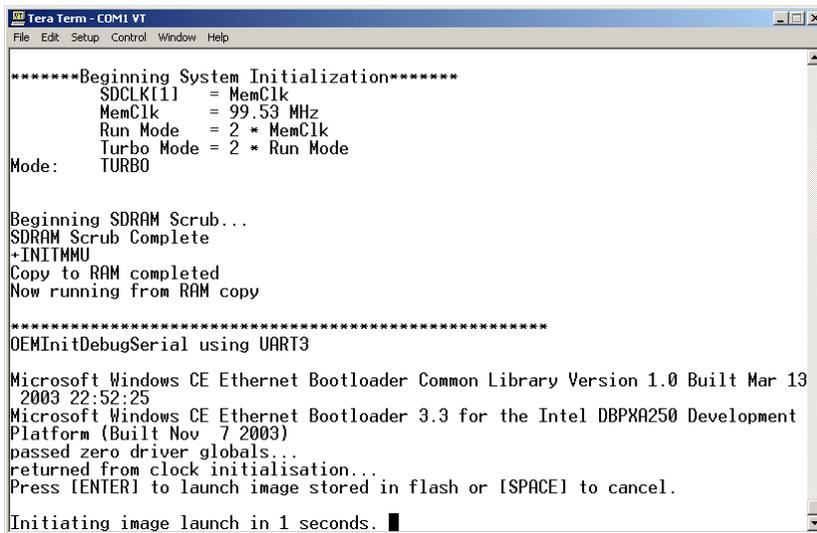


Determining the IP address of a VIPER Windows CE system with no screen attached.

Issue Date:	19-Jan-05	Circulation:	General
PCB Version:	N/A	Schematic Version:	N/A
PCB Issue:		Schematic Issue:	

The following procedure assumes that a DHCP server is connected to the network, and that it will assign the same IP address to the VIPER CE system after a re-boot.

- Connect COM3 (normally used for touch screen) to a Terminal set to 38K4,n,8,1 on a desktop PC.
- Power up the VIPER CE system.
- When the boot loader information displays the “Initiating image launch in 1 seconds” message, hit the space bar to see the boot loader configuration.



```

Tera Term - COM1 VT
File Edit Setup Control Window Help

*****Beginning System Initialization*****
SDCLKI11 = MemClk
MemClk = 99.53 MHz
Run Mode = 2 * MemClk
Turbo Mode = 2 * Run Mode
Mode: TURBO

Beginning SDRAM Scrub...
SDRAM Scrub Complete
+INITMMU
Copy to RAM completed
Now running from RAM copy

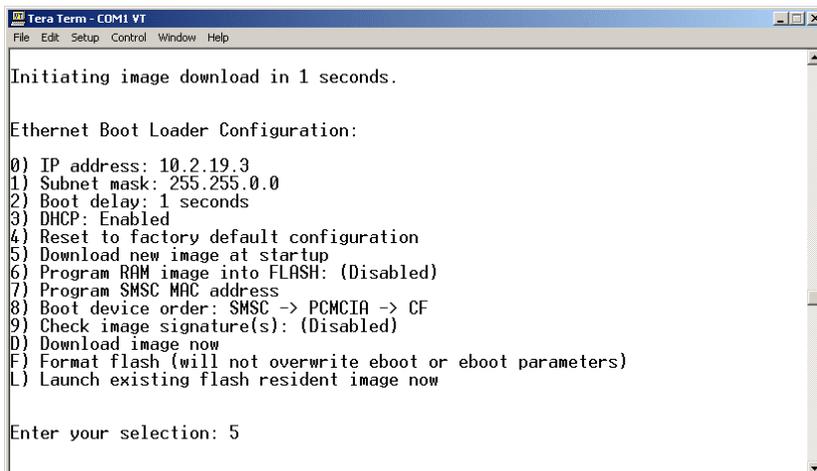
*****
OEMInitDebugSerial using UART3

Microsoft Windows CE Ethernet Bootloader Common Library Version 1.0 Built Mar 13
2003 22:52:25
Microsoft Windows CE Ethernet Bootloader 3.3 for the Intel DBPXA250 Development
Platform (Built Nov 7 2003)
passed zero driver globals...
returned from clock initialisation...
Press [ENTER] to launch image stored in flash or [SPACE] to cancel.

Initiating image launch in 1 seconds. █

```

- Select option 5 to change the ‘Launch existing flash resident image...’ to ‘Download new image at startup’



```

Tera Term - COM1 VT
File Edit Setup Control Window Help

Initiating image download in 1 seconds.

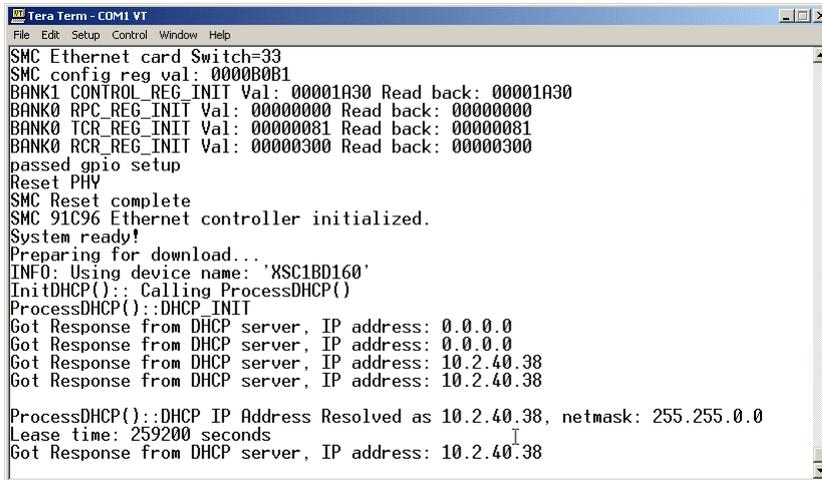
Ethernet Boot Loader Configuration:
0) IP address: 10.2.19.3
1) Subnet mask: 255.255.0.0
2) Boot delay: 1 seconds
3) DHCP: Enabled
4) Reset to factory default configuration
5) Download new image at startup
6) Program RAM image into FLASH: (Disabled)
7) Program SMSC MAC address
8) Boot device order: SMSC -> PCMCIA -> CF
9) Check image signature(s): (Disabled)
D) Download image now
F) Format flash (will not overwrite eboot or eboot parameters)
L) Launch existing flash resident image now

Enter your selection: 5

```

Important: Only change the options detailed below. Changing other options in this screen may result in a non-bootable system.

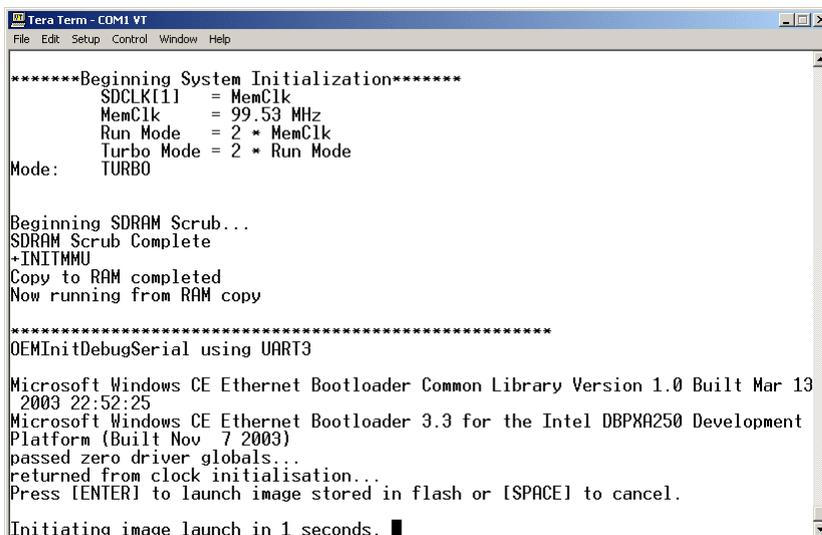
- Select option 'D' to put the system into it's download mode



```
Tera Term - COM1 VT
File Edit Setup Control Window Help
SMC Ethernet card Switch=33
SMC config reg val: 0000B0B1
BANK0 CONTROL_REG_INIT Val: 00001A30 Read back: 00001A30
BANK0 RPC_REG_INIT Val: 00000000 Read back: 00000000
BANK0 TCR_REG_INIT Val: 00000081 Read back: 00000081
BANK0 RCR_REG_INIT Val: 00000300 Read back: 00000300
passed gpio setup
Reset PHY
SMC Reset complete
SMC 91C96 Ethernet controller initialized.
System ready!
Preparing for download...
INFO: Using device name: 'XSC1BD160'
InitDHCP(): Calling ProcessDHCP()
ProcessDHCP():DHCP_INIT
Got Response from DHCP server, IP address: 0.0.0.0
Got Response from DHCP server, IP address: 0.0.0.0
Got Response from DHCP server, IP address: 10.2.40.38
Got Response from DHCP server, IP address: 10.2.40.38

ProcessDHCP():DHCP IP Address Resolved as 10.2.40.38, netmask: 255.255.0.0
Lease time: 259200 seconds
Got Response from DHCP server, IP address: 10.2.40.38
```

- When the DHCP server has assigned an IP address to the VIPER CE system, make a note of what it is, then power down the system
- Power up the VIPER CE system again
- When the boot loader information displays the “Initiating image launch in 1 seconds” message, hit the space bar



```
Tera Term - COM1 VT
File Edit Setup Control Window Help
*****Beginning System Initialization*****
SDCLKI11 = MemClk
MemClk = 99.53 MHz
Run Mode = 2 * MemClk
Turbo Mode = 2 * Run Mode
Mode: TURBO

Beginning SDRAM Scrub...
SDRAM Scrub Complete
+INITMMU
Copy to RAM completed
Now running from RAM copy

*****
OEMInitDebugSerial using UART3

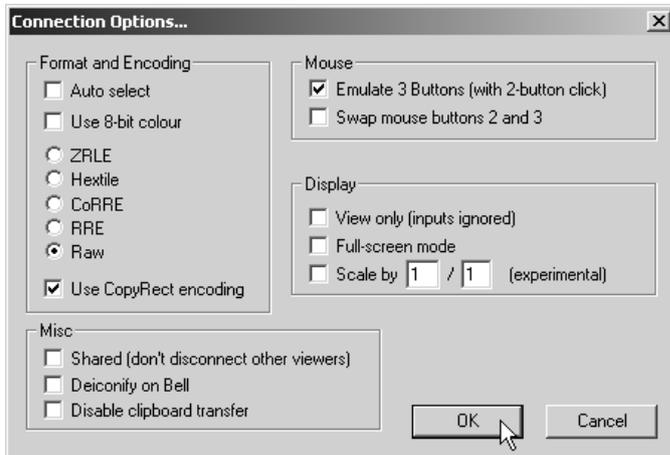
Microsoft Windows CE Ethernet Bootloader Common Library Version 1.0 Built Mar 13
2003 22:52:25
Microsoft Windows CE Ethernet Bootloader 3.3 for the Intel DBPKA250 Development
Platform (Built Nov 7 2003)
passed zero driver globals...
returned from clock initialisation...
Press [ENTER] to launch image stored in flash or [SPACE] to cancel.

Initiating image launch in 1 seconds. █
```

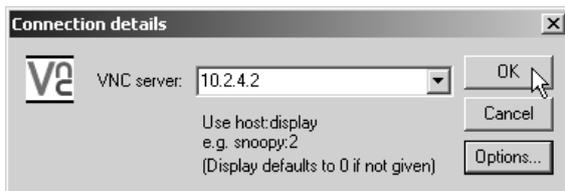
- Select option 5 to change the 'Download new image at startup' back to 'Launch existing flash resident image...'
- Select option 'L' to launch the CE image

Using VNC to connect to the VIPER CE System

- Install and run VNC client program on the desktop PC
- Click on Options...
- Un-tick the Auto Select option
- Select Raw



- Click OK
- Set the VIPER's IP address, obtained earlier, in the VNC server box



- Click OK
- When a connection has been made, a window will appear on the desktop PC showing the same screen as the VIPER CE system.

If you have any questions about this or about any of our products please contact Eurotech Ltd Technical Support.

Will Frazer
Technical Support Manager