

# Technical Note

**TITLE:** Installing Madge PCI 16/4 Busmaster RingNode Token Ring Card in Desk Station V Plus Using 500CS/CDTwith Windows 95 or Windows for Workgroups

**DATE:** 02/12/97

**PRODUCT FIELDS:** Accessory / Accessory  
Configuration

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## INFORMATION:

**SUBJECT:**  
Install Madge PCI 16/4 Busmaster RingNode Token Ring Card in DS V+ using 500CS/CDT

**Problem:**  
Having difficulty configuring a Madge 16/4 PCI busmaster (BM) RingNode token ring adapter in a DS V+, can not connect to either a Novell 3.11 Server or NT 4.0 server.

**Solution:**  
The Madge 16/4 PCI (BM) RingNode card has been successfully tested in a DS V+ using a 500CS connecting to both a Novell server and a Windows NT server. Here are the steps:

Madge 16/4 PCI (BM ) card ships with the following items:

1. Madge Smart 16/4 PCI RingNode Adaptor (w/o Smart ROM )
2. LAN support software Release 5.0 (which includes Disk #1 Install Wizard, Disk #2 Driver for DOS client, Windows 95, OS/2 & Windows NT, LAN Support Software (LSS) CD which includes additional network drivers )
3. Getting Started booklet.
4. Installing Smart 16/4 RingNode manual.

**Installation:**

1. Install the Madge card in an open DS V+ PCI slot.
2. Connect token ring network cable to either the RJ45 jack or D-type connector .
3. Dock 500CS, power up and go into TSETUP.
4. Set TSETUP to default, then select SOUND, change I/O to 240, IRQ=5, save and exit.  
( This setting applies to other comparable models as well )
5. Boot up with the Madge Wizard setup disk. Select "Change Ringnode Configuration..", then select "Custom Setup", then double click the Madge card from the list and make sure the card is set to IRQ=11, memory address= EF00 and Ringspeed=16MB.

6. Exit Madge Wizard, remove the disk and reboot system.

Set up Windows 95 to connect to a Novell 3.11 Server:

1. Windows 95 PnP should automatically recognize the card upon bootup. It will prompt for driver disk provided by the manufacturer.
2. Insert Madge disk #2, set file path=A:\windows. Win95 should install all necessary driver files.
3. Go to My computer, then go to Control panel, check under system/device manager/network adapter, double click on the Madge PCI network card and make sure the Madge card is configured for IRQ=11, memory address = EF00.
4. Go to Control panel/Network/Configuration menu, select "Client for Novell network" as your primary network logon screen, then double click on Client for Novell network in the Installed Network Component list, enter proper Server name etc. ( Consult a network administrator if this info is not available )
5. Save setting and restart Windows 95.

Set up Windows 95 to connect to Windows NT 4.0 Server:

Perform the same procedure as above from Step 1 through 3. From Step 4, network configuration menu, select "Client for Microsoft network" as your primary network logon screen. Then double click on Client for Microsoft network in the Installed Network Component list, enter NT domain name etc. ( Consult a network administrator if this info is not available )

Set up DOS/Windows for WorkGroups 3.11 to connect to Novell 3.11 Server:

1. Boot into DOS prompt, create a network directory "MD C:\NETWORK"
2. Insert Madge disk #2. Copy necessary Madge drives to the network directory. "COPY A:\DOS\\*. \* C:\NETWORK". Make sure you also copy the following network files to C:\NETWORK LSL.COM, IPXODI.COM, NETX.EXE( or VLM) . If you do not have these files, contact your network administrator.
3. Use a text editor to create a NET.CFG file: "EDIT C:\NETWORK\NET.CFG"

Sample NET.CFG:

```
[NET.CFG]
Link driver MADGEODI
BUFFERS 0 9000
INT 11
DATA RATE 16
I/O A20
```

4. When finished, save and reboot the system.
5. Go to DOS prompt, load network drivers in the following order or create a Batch file to have these loaded automatically:

```
LSL
MADGEODI
IPXODI
NETX (or VLM)
```

6. Type "F:". You should be able to get a logon prompt at this point.

Set up DOS/Windows for WorkGroups 3.11 to connect to Windows NT 4.0 Server:

1. Boot into WFWG 3.11, go to Network Folder.
2. Select "Network", click "Install Microsoft Network", then click OK.
3. Select "Sharing" and make then appropriate sharing selections.
4. Select "Drivers", click "Add Adaptor..", then click listed or Updated Network Adaptor\_", Windows will prompt for a driver disk.
5. Insert Madge disk #2, set file path=A:\DOS. Hit Enter and select "Madge Smart 16/4 PCI (BM) Ringnode (NDIS2)". Windows will copy some files needed to setup the network. (If the customer needs to install NDIS3 driver, it's located on the LSS 5.0 CD )
6. You may need the Madge disk again as well as WFWG 3.11 install disk #7 and #8.
7. After file copying is done, select "Microsoft NetBEUI" as default protocol, click CANCEL to exit the Network Driver screen and click OK to exit Network Setup screen. Windows will prompt you to enter the appropriate network information such as User logon name and Workgroup name ( consult your network administrator for this info ).
8. Upon entering these info, Windows will restart and ready to log into the network.

Sample PROTOCOL.INI :

```
[network.setup]
version=0x3110
netcard=mdg$mdgpcibm,1,MDG$MDGPCIBM,1 transport=ms$nwlinknb,NWLINK
transport=ms$ndishlp,MS$NDISHLP
transport=ms$netbeui,NETBEUI
lana0=mdg$mdgpcibm,1,ms$netbeui
lana1=mdg$mdgpcibm,1,ms$nwlinknb
lana2=mdg$mdgpcibm,1,ms$ndishlp
```

```
[protman]
DriverName=PROTMAN$
PRIORITY=MS$NDISHLP
```

```
[MDG$MDGPCIBM]
DriverName=mdgnd$
```

```
[NWLINK]
```

```
BINDINGS=MDG$MDGPCIBM
[MS$NDISHLP]
DriverName=ndishlp$
BINDINGS=MDG$MDGPCIBM
```

```
[NETBEUI]
DriverName=netbeui$
SESSIONS=10
NCBS=12
BINDINGS=MDG$MDGPCIBM
LANABASE=0
```

**Keywords:**

Madge,RingNode,token ring,ringnode,BusMaster,DS V+,PCI,500,Windows 95 ,Win95,wfwg,novell 3.11,windows nt 4.0,server