

User's Manual

Federal Communications Commission (FCC) Statement

RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures :

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected .
- Consult the dealer or an experienced radio/ TV technician for help .

Any special accessories needed for compliance must be specified in the instruction manual .

Warning : A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used .

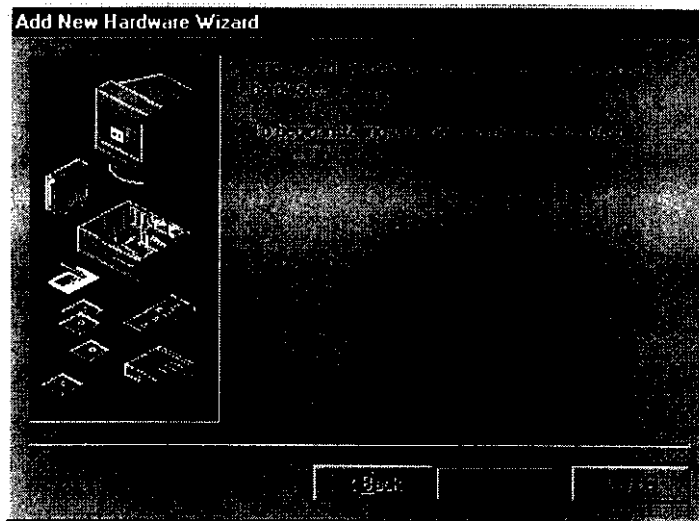
Use only shielded cables to connect I/O devices to this equipment .

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FULLINK Wireless LAN Card User Manual:

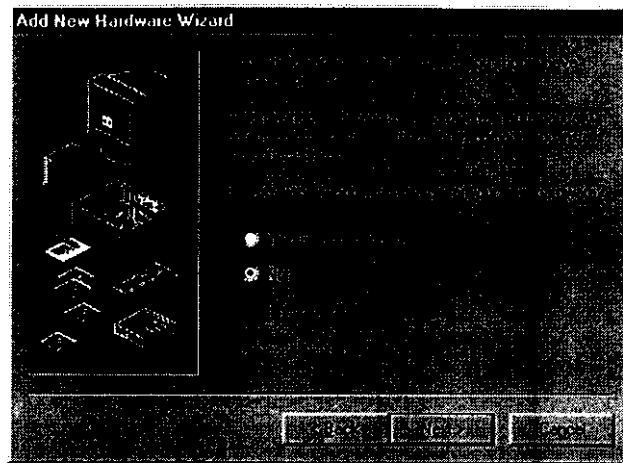
Step 1:

Insert the Wireless LAN Card into the PCMCIA slot of the notebook. Run "**Control Panel**" and click the "**Add New Hardware**", it should show the dialog box as the figure. Click "**Next>**" to continue.



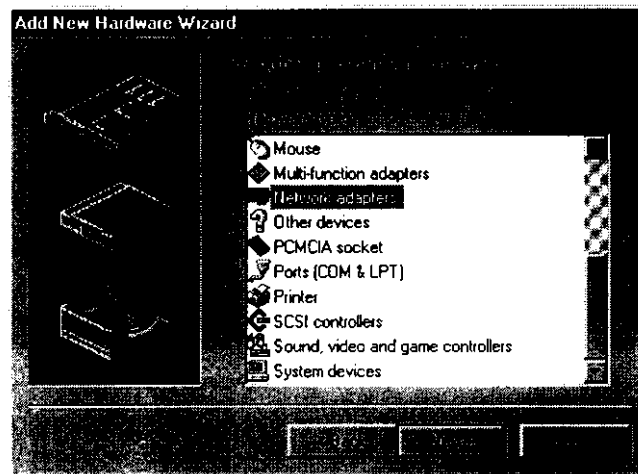
Step 2:

Choose "No" and Click "Next>" .



Step 3:

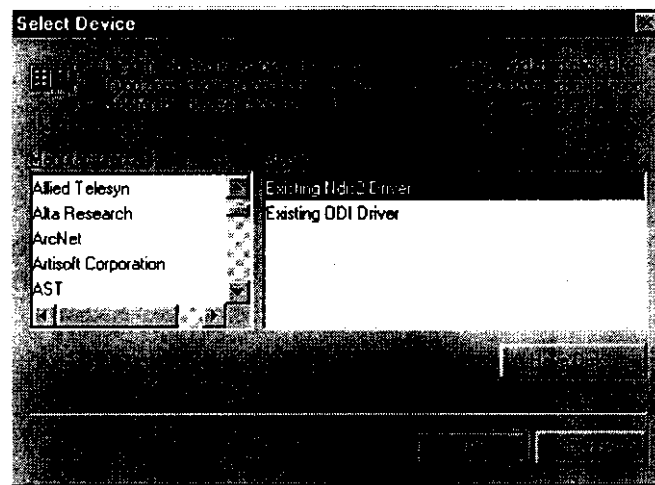
Highlight the "Network Adapters" and click "Next>" .



Step 4:

Click "Have Disk..."

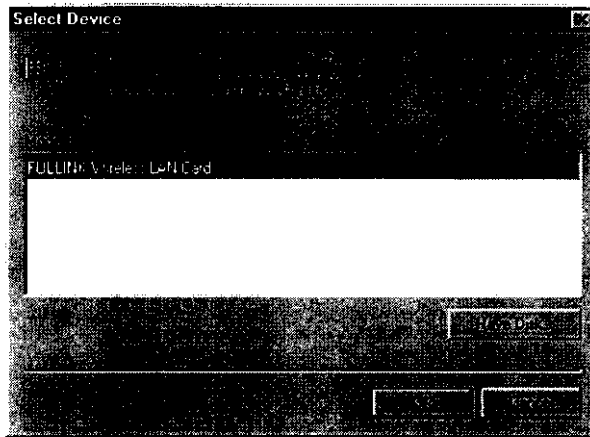
Insert the diskette labeled [Device Driver] into the floppy driver and type "A:\".



Step 5:

Select "FULLINK Wireless LAN Card" and
click "OK".

Click "Next>".



Step 6:

Input the three properties:

1. **Group Name(SSID):**

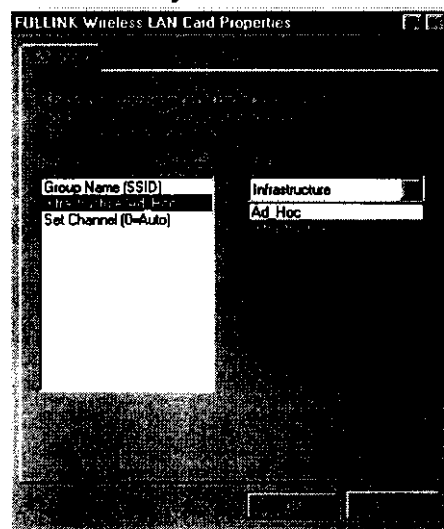
Set the **SSID** value of the PC ◦

2. **Infrastructure/Ad_Hoc:**

If the PC use the Infrastructure Network then select **Infrastructure**, else select **Ad_Hoc** to use Ad Hoc Network ◦

3. **Set Channel:**

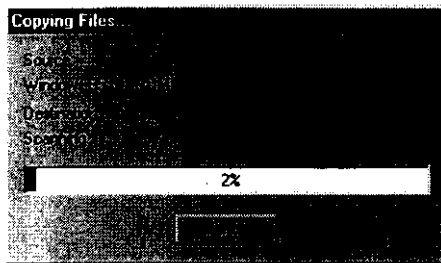
Set the **Channel** which the card uses, value "0" indicates the card will set this value automatically ◦



Step 7:

Start to copy from disk...

Click "**Finish**" to end the installation •



TEST PROGRAM
AND UTILITY FILES



PCMCIA support:

Note: All AMD provided OEM utilities require that PCMCIA Card & Socket Services be disabled.

card_off.exe

functional description

Turns the card power off, disables the address widows and exits gracefully.

card_on.exe

functional description

If an Intel/Vadem compatible PCIC is found then the PCIC is programmed with the following information (based on the information in the PC_CARD.CFG file:) pc card slot number, io base address & size, attribute memory segment & size, common memory segment & size and IRQ.

modcis.exe (Modify CIS)

functional description

Provides the user with the ability to modify or add tuple information to the CIS. Care should be exercised as WIN95 uses the tuples that specify the Level 1 Version/Product Information, Manufacturer ID, Device, Configuration and Configuration Table Entry to create the device ID for the PC-Card. This device ID is then used to identify which driver is associated with the device.

options

<space> Modify
<a> Add tuple
<d> Delete tuple
<r> Read card
<s> Save to disk
<w> Write card
<q> Quit

modnid.exe (Modify Node ID MAC Address)

functional description

Allows user to modify or increment a PCMCIA card Node ID MAC Address (The 48 bit I.E.E.E. address). The node ID is modified in the PCMCIA CIS and in the MIB simultaneously. CIS and MIB checksums are also updated. Command line options are available to force an id or increment the id; otherwise, user-interface mode starts. Each ID burned is recorded with the date burned in a log file. Newest node id found in log file, if applicable, becomes basis for incrementing.

options

modnid	go to interactive menu.
modnid i	increment NID by one.
modnid e xx xx xx xx xx xx	modify the PCMCIA card Node ID to xx xx xx xx xx xx (hex) two lsb bits of MSB node ID will be forced to zero.

The commands in interactive mode:

F1	-- help
R	-- read NID card
W	-- write card
I	-- increment NID
F	-- read NID from node_id.lst
auto off	-- disable auto-increment
auto burn	-- enable auto-burn mode. Write to flash automatically.



ISA support:

Note: All AMD provided OEM utilities require that ISA Plug-N-Play support be disabled.

isa_on.exe**functional description**

This utility enables the PnP ISA card in a system, with or without PnP BIOS support. This utility steps through the standard PnP serial isolation key sequence to prepare the card to be configured. If the program fails to isolate the card a warning message is issued and the program forces the use of port 0x203. The program then configures the environment with the following information (based on the information in the PC_CARD.CFG file:) io base address & size, common memory segment & size and IRQ. If the program is unable to locate the card it

The card under test MUST be the only Plug-n-Play card in the system.

hex2pnp.exe (Hex to PnP conversion)**functional description**

Creates the necessary Resource Record for support of Plug-n-Play. An input file (isa_pnp.txt is provided as an example) is read in and converted into the necessary binary file. The output file should be named CIS_PNP.BIN for use with the loadcard utility.

modisa.exe (Modify ISA node id MAC Address)**functional description**

Allows user to modify or increment a card node ID MAC Address (The 48 bit I.E.E.E. address). The node ID is modified in the ISA Resource Record and in the MIB simultaneously. The MIB checksum is updated. Command line options are available to force a node ID or to increment the node ID; otherwise, the user-interface mode starts. Each ID burned is recorded with the date burned in a log file. Newest node ID found in log file, if applicable, becomes basis for incrementing.

options

modisa	go to interactive menu.
modisa i	increment NID by one.
modisa e xx xx xx xx xx xx	modify the Resource Record Node ID to xx xx xx xx xx xx (hex)
	two lsb bits of MSB node ID will be forced to zero.

The commands in interactive mode:

F1	-- help
R	-- read NID card
W	-- write card
I	-- increment NID
F	-- read NID from node_id.lst



PCnet_(tm)-Mobile OEM Utility Files

General support:

loadcard.exe

functional description

Load the firmware into the flash. Loadcard.exe supports AMD flash devices (Am29F010 or Am29F040) only.

options

loadcard <filename>: Save existing CIS/ISA PnP Resource Record and load the firmware only.

loadcard <filename> /o: Forces overwrite CIS/ISA PnP Resource Record with file data.

This option should be used for the PCMCIA environment to ensure the CIS information in the source file is loaded into FLASH memory.

loadcard <filename> /i: Programs the CIS/ISA PnP Resource Record as contained in the file CIS_PNP.BIN.

This option should be used for the ISA environment since the default firmware is configured for PCMCIA.

readcard.exe

functional description

Read the contents of flash device into a file in hex (/h) or binary (default) format. If hex format is chosen, checksum is calculated and added to the file.

banner.exe

functional description

Reads the Version and Date banner from the SRAM. This data is copied from the FLASH by the boot process, also stored in the FLASH, of the internal 188 to the SRAM.

domain.exe

functional description

Sets the regulatory domain value that is stored in the MIB section of the code. This value is used to control the available frequencies for the Phy and issuance of the RCR33A value, if applicable. The MIB checksum is updated.

rcr_inc.exe (RCR INCRement)

functional description

Allows user to modify or increment a cards RCR33A ID. The RCR33A ID is modified in the in the MIB and the MIB checksum is updated. Command line options are available to force a RCR33A id or to increment RCR33A id; otherwise, the user-interface mode starts. Each ID burned is recorded with the date burned in a log file. The newest RCR33A id found in log file, if applicable, becomes basis for incrementing. The domain is set to 40 to enable the RCR33A transmission and utilize the MKK frequencies.

options

rcr_inc: go to interactive menu.

rcr_inc s xxxxxxxxxxxx: Seed value is used to calculate the RCR33A id (decimal)

rcr_inc r xx xx xx xx xx xx xx xx: Real value is used as the RCR33A id (hex)

rcr_inc i: Increment RCR33A by one.

rmflash.exe

functional description

Erases the entire 1M segment of the FLASH.



PCnet_(tm)-Mobile OEM Utility Files

Source code for the utilities is also provided in C/C++ format. The user is encouraged to modify these utilities to fit their unique production environment. Table 1.1 illustrates the source files necessary to compile the various OEM utilities. Also supplied with the source code are the IDE files for use with the Borland v4.5x compiler.

Caution: The file MIB.HPP provided with the firmware should be copied to the ./MIB directory when recompiling the utility source code utilizing the Borland environment.

	B A N N E R . E X E	C A R D _ O F F . E X E	C A R D _ O N . E X E	D O M A I N . E X E	H E X 2 P N P . E X E	I S A _ O N . E X E	L O A D C A R D . E X E	M O D C I S . E X E	M O D I S A . E X E	M O D N I D . E X E	R C R _ I N C . E X E	R E A D C A R D . E X E	R M F L A S H . E X E
ADAPTOR	*	*	*	*			*	*	*	*	*	*	*
BANNER	M												
CARD_OFF		M											
CARD_ON			M										
CIS										*			
COMMAND						*			*				
CONSOLE								*					
DOMAIN				M									
FLASH				*			*	*	*	*	*	*	*
FLASH_S				*			*	*	*	*	*		
HEX2PNP					M								
INTS				*				*	*	*	*		
ISA_ON						M							
LFSR					*	*			*				
LIST								*					
LOADCARD							M						
MIB				*					*	*	*		
MISC				*					*	*	*		
MODCIS								M					
MODISA									M				
MODNID										M			
RCR_INC											M		
READCARD												M	
PLUG				*			*	*	*	*	*	*	*
RMFLASH													M
SERVICE				*			*			*	*		*
TIMEOUT				*			*	*	*	*	*	*	*

Table 1.1

M = main ()

* = include file