

RealPOS 30

Module: 7446

Installation Guide



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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions carefully. Save these instructions for future reference.
2. Follow all warnings and instructions marked on the product.
3. Do not use this product near water.
4. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
5. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
6. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
7. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
8. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two condition: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

CD-ROM Safety Warning

DANGER

INVISIBLE RADIATION WHEN OPEN.

AVOID EXPOSURE TO BEAM

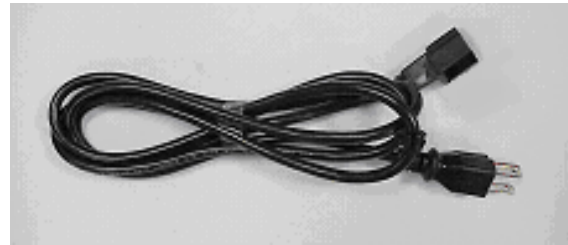
Caution on Lithium Batteries

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

1. Accessory



a. Warranty Card



b. Power Cable



c. Drivers Bank

d. Installation Guide

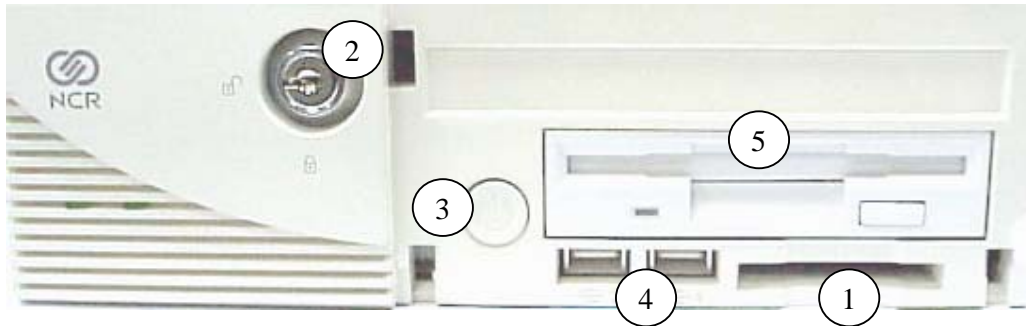
The following drivers in the folders of Driver Bank are necessary for driver installation.

B69 Mainboard

Folder/File	File Description
<CD>:\B69\B69.htm	B69 Driver list
<CD>:\Common\Ac97_codec_ADI	Audio driver
<CD>:\Common\LAN_drive\ R8139_810x	LAN driver
<CD>:\Common\INTEL\Chipset	Chipset driver
<CD>:\Common\INTEL\i815VGA	VGA driver

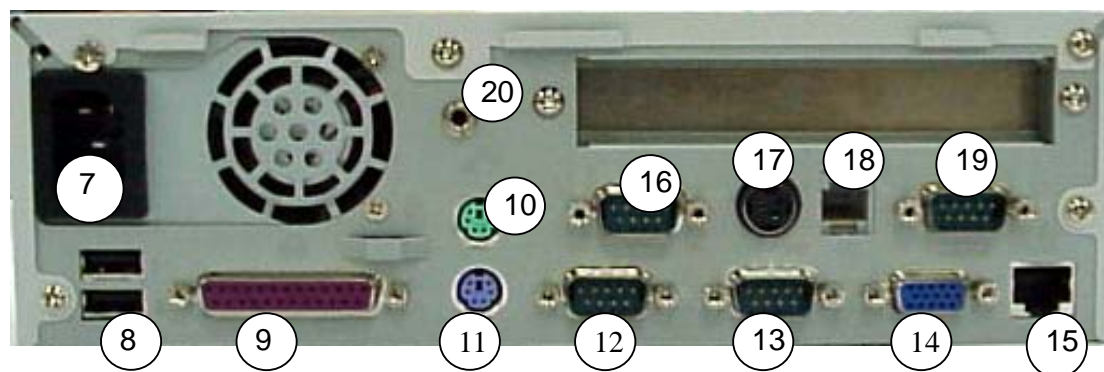
2. I/O Function

2.1 7446 Front View



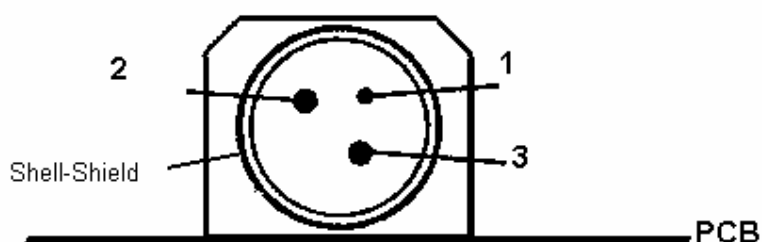
#	Function
1	Power & HDD Indicator
2	Key Lock
3	Power Button
4	USB3 & 4
5	Floppy Disc Drive
6	Compact Flash

2.2 7446 Rear View



#	Function	#	Function
7	AC Inlet	14	VGA
8	USB 1 & 2	15	LAN
9	LPT	16	COM4
10	PS/2 Mouse	17	DC Output 24V/2.0A
11	PS/2 Keyboard	18	Cash drawer
12	COM2	19	COM3
13	COM1	20	Line out

Note: DC output 24 V Pin Assignment



Pin	Assignment
1	NC
2	+ 24V DC
3	Ground

3. Specification

Model	7446
MB	B69 all-in-one mainboard
Core logic	Intel FW82C815E B-STEP GMCH & 82801BA ICH2
CPU	Intel socket 370 CPU Celeron /PIII FC-PGA/FC-PGA2 FSB 100/133MB up to 1.2G
Internal cache	Built-in CPU
External cache	Built-in CPU
System memory	2x 168pin DIMM sockets support 100/133 MHz SDRAM up to 512MB
BIOS	Award PnP BIOS
VGA display	Built-in GMCH
VGA memory	Share memory 4MB
I/O controller	W83627HF x 1, W83697 x1
LAN controller	Realtek RTL8100BL 10/100B fast Ethernet controller Support WOL & boot from LAN
IDE controller	Built-in core logic support UDMA 33/66/100Mhz
HDD connector	Primary: 1x 40-pin 2.54 pitch Secondary: 1x 44-pin 2.0 pitch IDE pin-header
FDD connector	1x 34-pin 2.54 pitch connector
I/O Port	Rear Panel: 1x PS/2 keyboard port 1x PS/2 Mouse port 2x DB-9M RS-232 serial port (pin1 & 9 with 5V/12V 0.5A power select) 1x DB25F Parallel port 1x DB15F VGA port 1x RJ45 LAN port 2x USB port Front Panel: 1x Compact Flash socket 2x USB port
Audio port	Line-out port
On board PCI slot	1x120pin PCI slot for expansion
Expansion Slot	1x PCI slot
Power Supply	Internal ATX 180W
M/B dimension	232x313mm
System Dimension	240(w) x 335(d) x 72(h) mm without cable manage cover 240(w) x 425(d) x 72(h) mm with cable cover

POS IO port	Rear Panel: POS I/O daughter board supports COM3/COM4 /RJ11/ 24V DC port 1x RJ11 cash drawer, 1x 24V POS print power port (max. 24V/ 2.3A), 2x DB-9M RS-232 serial port with pin1 & 9 with 5V/12V 0.5A power select Optional COM3, COM4 cable bracket
Storage Device	1 x 3.5" FDD drive (Lower) 1 x 3.5" HDD drive bay (Upper)
	Optional: 1 x slim CD-ROM /CD-RW/DVD-ROM drive bay (Upper) 1 x 3.5" HDD drive bay (Lower)
Thermal	CPU Cooler x1 Support hardware monitor for fan speed control and software throttling
Customer Display	Optional: VFD_2 x20 Pole Display
EMC	FCC Class A, CE Class A, C-Tick, CCC CE
Safety	UL, cUL, TUV, CB, CCC CE
Environment	Operating Temperature 5°C~40°C Non Operating Temperature -10°C ~ 60°C Humidity: 5% - 80% RH, non condensing
	Noise level: operation under 50db
	Vibration :Operation 0.5g /Z axis functions and mechanisms no failure Non-operation:2g /Z functions and mechanisms no failure Full packing: 4g / X.Y.Z axes functions and mechanisms no failure
	Drop: CNS14336 Standard
	Noise level: operation under 50db
OS Support	MS-DOS 6.22, Windows 98, 2000, Windows XP Embedded.
Case Color	G11 (NCR light beige)

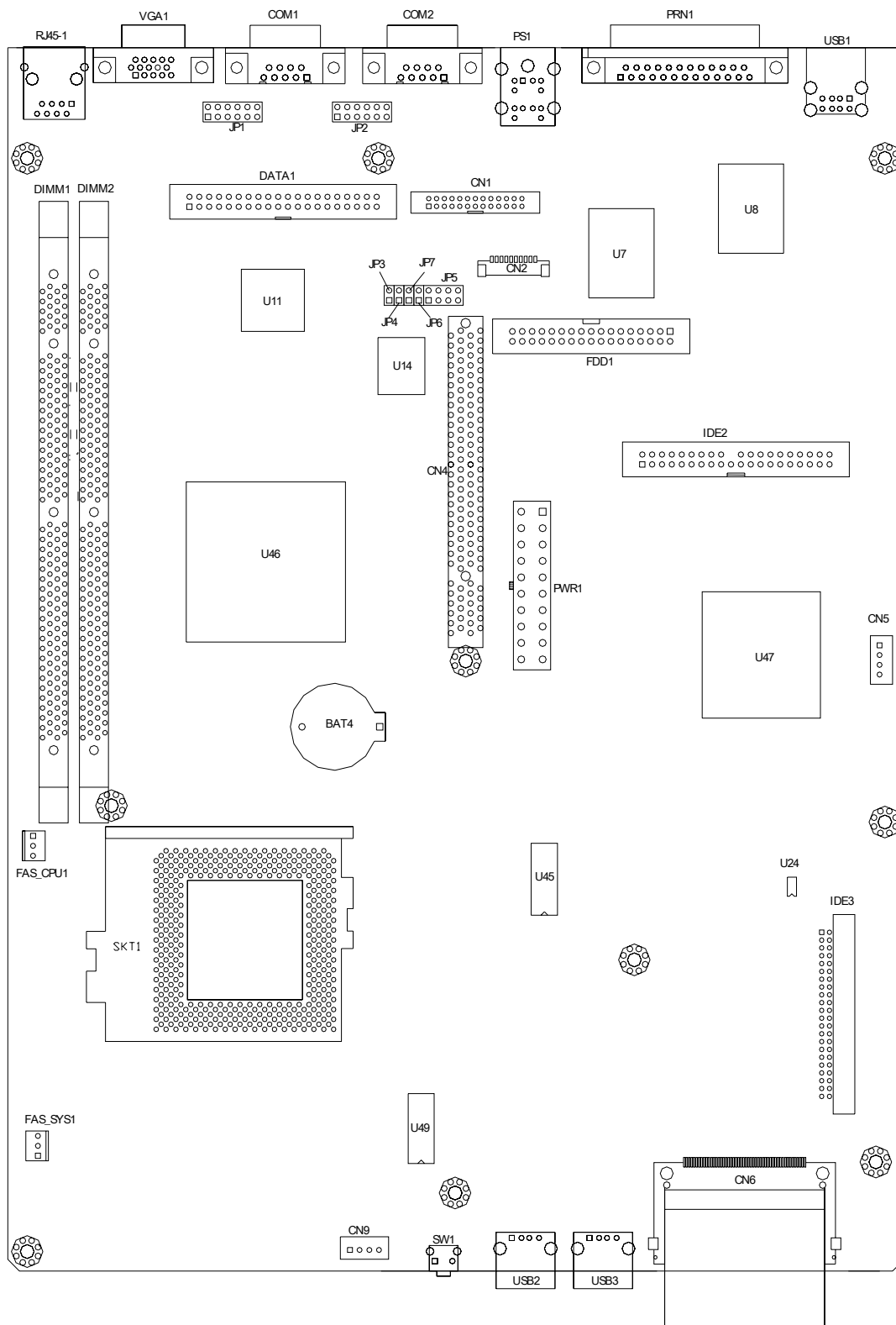
3.1 System Memory Combination

7446 Mainboard

RAM Size		128MB		256MB			512MB		
Slot									
DIMM1		X	128	128	256	X	256	512	X
DIMM2		128	X	128	X	256	256	X	512

4. Jumper Setting

4.1 Mainboard Jumper Setting



4.1.1 COM 1 Power Selection

* Default Setting

Pin	Function	JP1(SHORT)
1	*DCD#	1-2
	VCC	3-4
	+12V	5-6
9	*RI#	7-8
	VCC	9-10
	+12V	11-12

4.1.2 COM 2 Power Selection

Pin	Function	JP2(SHORT)
1	*DCD#	1-2
	VCC	3-4
	+12V	5-6
9	*RI#	7-8
	VCC	9-10
	+12V	11-12

4.1.3 Power Mode Selection

Function	JP3
*ATX Power	OPEN
AT Power	SHORT

4.1.4 CMOS Operation modes

Function	JP6
*CMOS Normal	OPEN
CMOS Reset	SHORT

4.1.5 Compact Flash Master/Slave Setting

Function	JP7
*Master	OPEN
Slave	SHORT

Note:



4.2 I/O Board Jumper Setting

4.2.1 COM 3 Power Selection

* Default Setting

Pin	Function	JP4 (SHORT)
1	*DCD#	1-2
	VCC	3-4
	+12V	5-6
9	*RI#	7-8
	VCC	9-10
	+12V	11-12

4.2.2 COM 4 Power Selection

Pin	Function	JP3 (SHORT)
1	*DCD#	1-2
	VCC	3-4
	+12V	5-6
9	*RI#	7-8
	VCC	9-10
	+12V	11-12

4.2.3 Cash Drawer Power Selection

Function	JP2 (SHORT)
*12V	1-2
24V	2-3

Note:

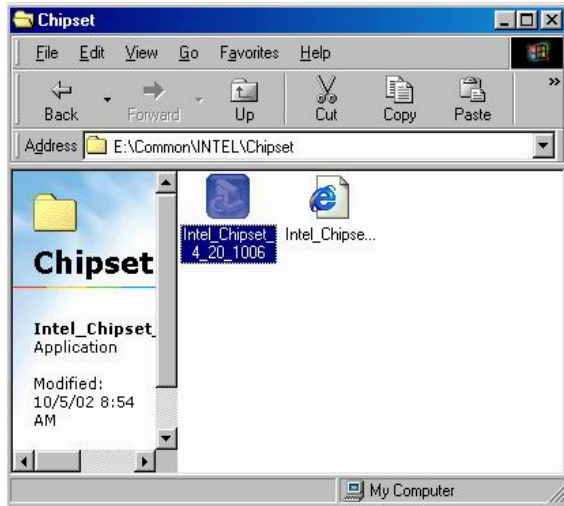


5. Driver Installation

The following procedures are for Windows 98SE, other platforms are similar.

5.1 Chipset Driver Installation

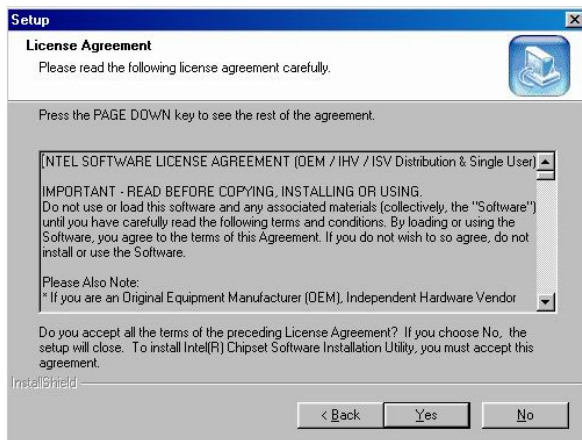
(Path in Driver bank: Common\INTEL\Chipset)



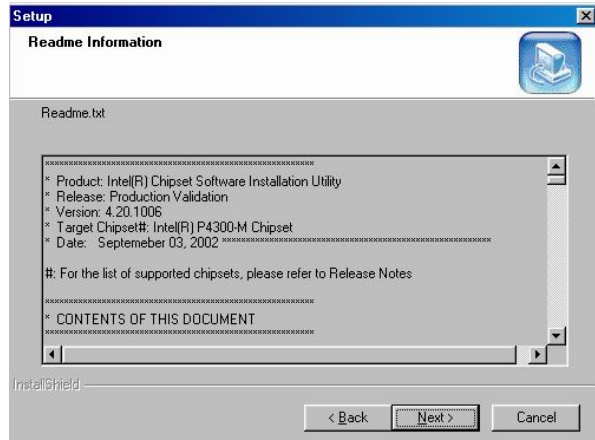
a. Click "Intel_Chipset_4_20_1006" on the My Computer window.



b. Click "Next" button on the welcome window.



c. Click "Next" button on the License Agreement window.



d. Click "Next" button on the Read me Information window.



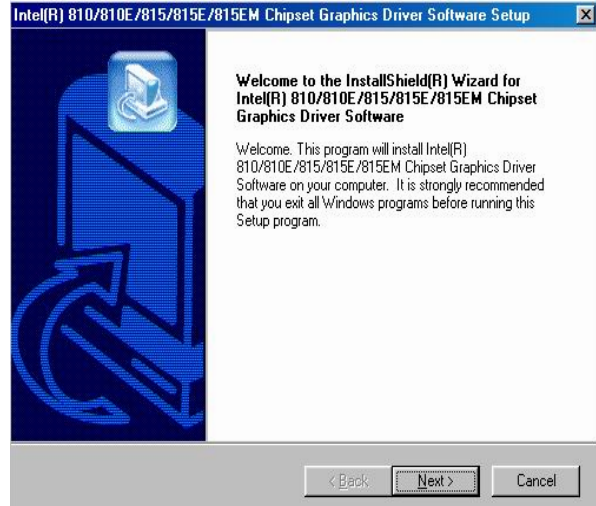
e. Click "Finish" and restart your system.

5.2 VGA Driver Installation

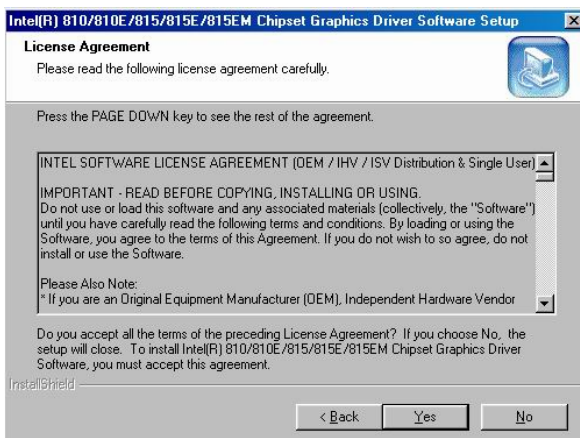
(Path in Driver bank: Common\INTEL\i815VGA\win9x67)



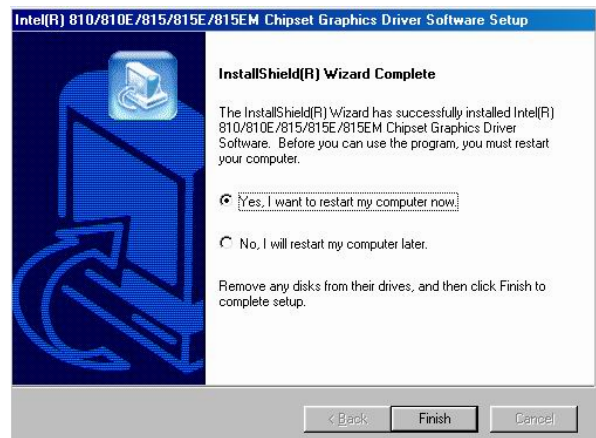
a. Click "Setup" on the My Computer window.



b. Click "Next" button on the welcome window.



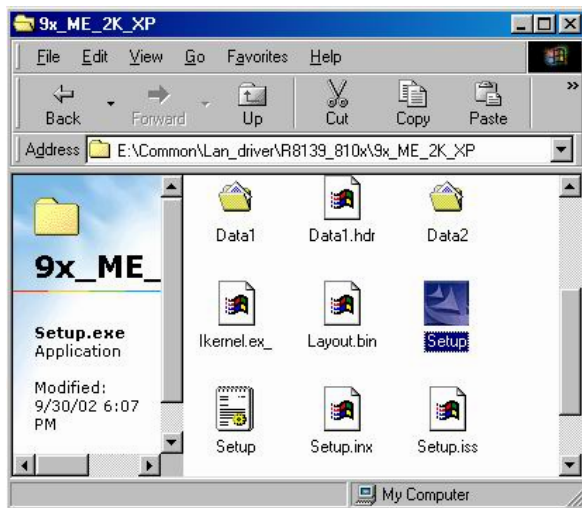
c. Click "Next" button on the License Agreement window.



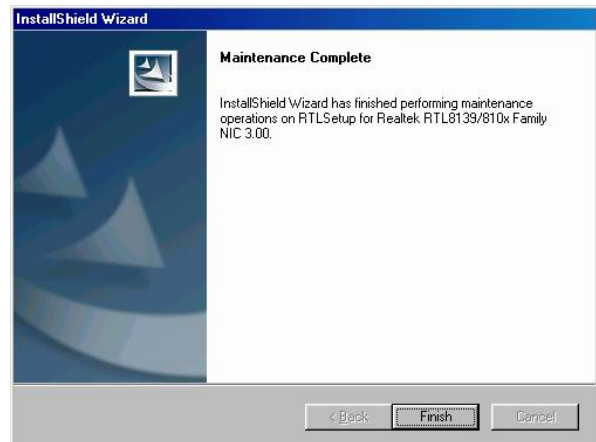
d. Click "Finish" and restart your system.

5.3 LAN Driver Installation

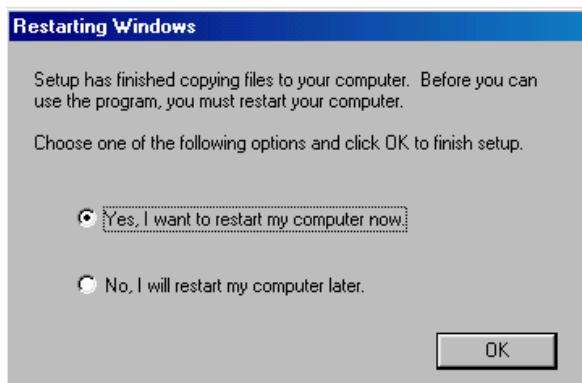
(Path in Driver bank: Common\Lan_driver\ R8139_810x\9x_ME_2K_XP)



a. Click "Setup" on the My computer windows.



b. Click "Finish" button on the Maintenance complete window.



c. Click "OK" to restart the system.

5.4 Audio Driver Installation

(Path in Driver bank: Common\Ac97_codec_ADI\WIN98SE&2K&XP\SMAXWDM\WIN98SE)



a. Click "Next" button on the Add New Hardware Wizard window.



b. Click "Next" on the Add New Hardware Wizard window.



c. Browse the driver path and Click "Next" button.

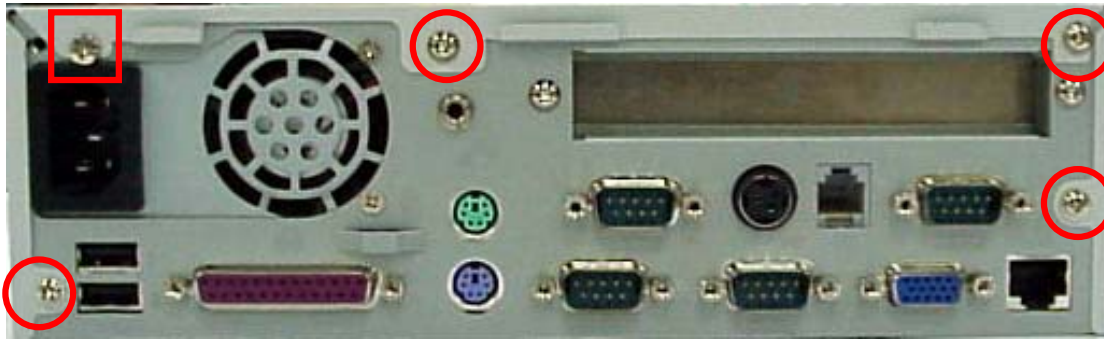


d. Click "Next" button on the Add New Hardware Wizard window.

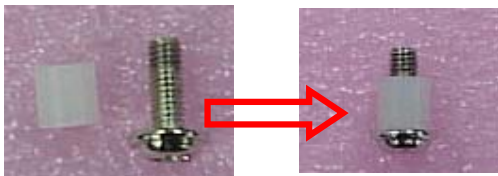


e. Click "Finish" button on the Add New Hardware Wizard window.

6. Installation the Cable Cover



a. Loosen the five screws (4mmx4, 6mmx1 (32UCN)).



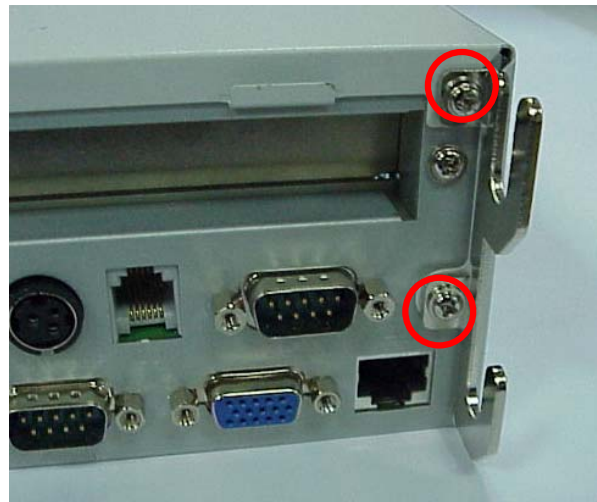
b. Insert the screw (8mm) into the plastics.



c. Lock the screw.



d. Lock the brackets with screws. (6mmx3, 6mmx1 (32UCN)).





e. Installation the cable cover.



f. Finished.

7. Installation Cash Drawer

You can install a cash drawer through the Cash Drawer port.

7.1 Cash Drawer Pin Assignment

Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V/24V
5	DOUT bit1
6	GND

Data out address (200h)

Data in address (201h)

7.2 Cash Drawer Controller register

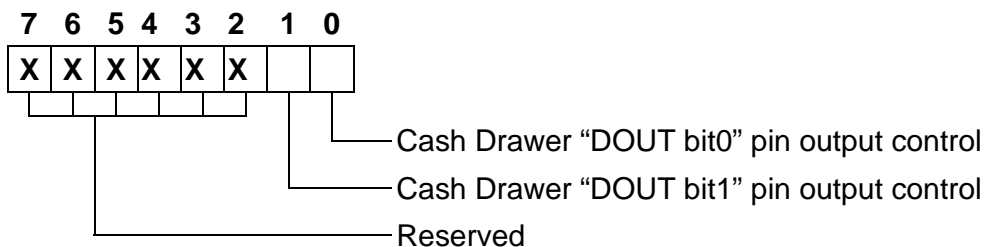
The Cash Drawer Controller use two I/O addresses to control Cash Drawer –Cash Drawer Control Register and Cash Drawer Status Register.

7.2.1 Cash Drawer Control Register

Register Location: 200h

Attribute: Write only

Size: 8bit



Bit 7-2: Reserved

Bit 1: Cash Drawer "DOUT bit1" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 0: Cash Drawer "DOUT bit0" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

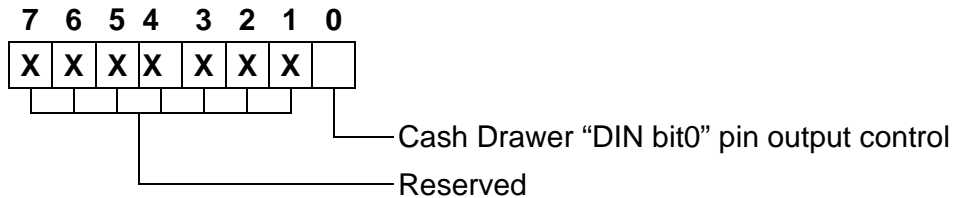
Suggest control the bit1/0 at the same time.

7.2.2 Cash Drawer Status Register

Register Location: 201h

Attribute: Read only

Size: 8bit



Bit 7-1: Reserved

Bit 0: Cash Drawer "DIN bit0" pin input status.

= 1: the Cash Drawer opened or not exist.

= 0: the Cash Drawer closed.

7.3 Cash Drawer control command example

Use Debug.EXE program under DOS or Windows98

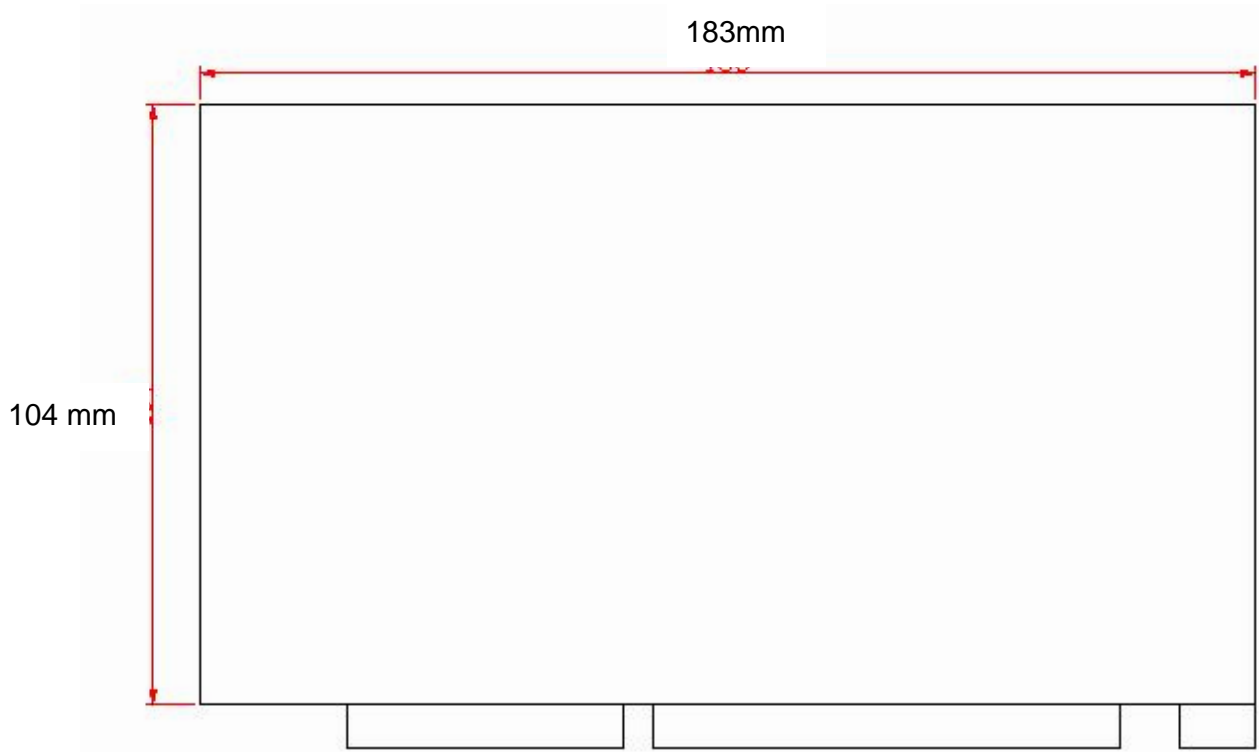
Command	Cash Drawer
O 200 01	Opening
O 200 00	Allow to close
<p>➤ Set the I/O address 200h bit0 =1 for opening Cash Drawer by "DOOUT bit0" pin control.</p> <p>➤ Set the I/O address 200h bit0 = 0 for allow close Cash Drawer.</p>	

Command	Cash Drawer
I 201	Check status
<p>➤ The I/O address 201h bit0 =1 mean the Cash Drawer is opened or not exist.</p> <p>➤ The I/O address 201h bit0 =0 mean the Cash Drawer is closed.</p>	

8. Notices

8.1 Maximum dimension of Interface card

(Maximum dimension of Interface card: 183 mm x 104 mm)



8.2 Vertical position of 7446

7446 vertical positions must keep vent hole on top side, storage device on desk side.

