## POS500/505 with B55/B65 M/B Installation Guide



## Point-of-Sale Hardware System

Part No: 48200014 January 2004 (V2.1)

## 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.

#### 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.

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# 1.Accessory



Power Cord



Warranty Card



Printer Cable







Y Cable (Keyboard & Mouse)



**DIO Cable** 



Serial Cable



External IDE Cable





External IDE Cable

**Drivers Bank** 

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

Folder	Driver	Function		
	Acrobat	Acrobat Reader Installation		
	BIOS Tool	BIOS Update Tool		
Common	CDROMDrv	CDROM driver installation (for DOS)		
	Elo_Touch	Touch screen driver Installation		
	LAN_drive	LAN driver installation		
	* Netmos	Enable COM5/COM6		
	Smart Card	Smart Card driver installation		
	Audio	Audio driver Installation		
B55	UDMA	UDMA driver installation		
	VGA	VGA driver installation		
(POS500/505)				
	Doc2000	Doc2000 driver installation		
B65	VGA_69000	VGA driver installation		
(POS500)				
-	Card Reader	Card Reader Test Program		
lest Utility	Cash Drawer	Cash Drawer Test Program		
	VFD	Customer Display Test Program		

\* When using B55 Mainboard, the Touchscreen was set on COM5. The Netmos driver must be loaded to enable COM5 & COM6 before installing ELO touch driver to COM5.

# 2.I/O Function

## 2.1Front View



#	Function
1	LCD Touch Module
2	Power Switch & External IDE Connector
3	Card Reader
4	External FDD Connector & Compact Flash Socket

## 2.2I/O port



#	Function	#	Function
1	KB / Mouse	6	COM4
2	LPT	7	COM6
3	COM1	8	Cash Drawer
4	COM2(optional 2 <sup>nd</sup> VGA port)	9	USB1&2
5	COM3	10	LAN

# **3.**Specification

Item	POS500	POS500/505			
Main Board	B65	B55			
CPU	Supports SK 370	Supports SK 370			
	Celeron / PIII	Celeron / PIII			
	FSB 66/100Mhz	FSB 66/100/133Mhz			
Co-processor	Built-in CPU				
Internal Cache	Built-in CPU				
External Cache	Built-in CPU				
System Memory	2 x 168pin DIMM socket,	2 x 168pin DIMM socket,			
	support up to 512 MB	support up to 1GB			
BIOS	Award PnP BIOS				
Core Logic	Intel FW82443BX	SiS 630ST Single Chip			
VGA Display	C&T69000 Chip	Built-in SiS630ST			
	2MB RAM on chip	SMA 8M/16M/32M/64MB			
LCD Panel	POS500 12.1" TFT 800x600	180 cd/m <sup>2</sup> Touch resistive type			
	POS505 15" TFT 1024x768	250 cd/m <sup>2</sup> Touch resistive type			
	Viewing angle 0°~60°				
IDE Controller	PCI IDE supports ATA	PCI IDE supports ATA			
	PIO/UDMA33	PIO/UDMA33/66/100			
Hard Disk Drive	One 3.5" HDD drive by Primary	IDE (HDD option)			
I/O controller	SMSC37C602 support one	Built-in Core Logic SiS 630ST			
	40-pin	W83697HF / W83697HF			
		NetMos PCI 9835 x1			
FDD controller	40-pin 2.54mm pitch pin-header	with power			
I/O Port	DB-9M COM x 2 (COM1&2) ,10	-pin RJ-45 COM x 3 (COM3/4/6)			
	(COM5 default for Touch Screer	n),RJ-45 LAN x 1, RJ-45 Cash			
	Drawer x 1, USB x 2				
LAN port	Intel 82559ER LAN Chip	RTL8139C			
ROM disk	DiskOnChip Socket supported				
Card Reader	Keyboard/Serial (3-Track) types supported (20pin)				
	Can also bundle Barcode Card Reader & Magnetic Card Reader				
Compact Flash	Type 1 Compact Flash Socket Supported				
Customer Display	er Display Options Fix type customer display supports LED/VFD/				
	/LCD type				
Second display	Optional 8.4"/10.4"/12.1" TFT LCD display				
Power Supply	FT8007 Int. AT 75W	FT8150 Int. ATX 150W			
	Factory optional FT8150 Int.				
	ATX 150W				
Operation Temperature	<sup>3</sup> 5°C~ 35°C				

EMI/EMS	CE (Class-A)
System	POS500 12.1" 33 x 32 x 24cm
Dimension(WxDxH)	POS505 15" 37.9x34.5~36.1x20.1~31.2cm
System Weight (Net)	7.5 Kgs. (16.5 Lbs.)

Note: The control Chip of B55 (Netmos NM9835)/B65(IMP16C552)of COM5 & COM6 is PCI 2.1 protocol which not support system standby mode.

## 3.1System Memory Combination

B65(POS500)

RAM Size Slot	128	MB	:	256ME	3		512MB	5
DIMM1	Х	128	128	256	Х	256	512	Х
DIMM2	128	Х	128	Х	256	256	Х	512

#### B55(POS500/505)

RAM Size Slot	128MB		256MB			512MB			1024MB	
DIMM1	Х	128	128	256	Х	256	512	Х	512	
DIMM2	128	Х	128	Х	256	256	Х	512	512	

Note: Please note that DIMM1 of POS500 does not support RAM over 29 mm in height.

# 4. Peripherals Installation

## 4.1Install External FDD



a. Connect the FDD cable from 40 pin FDD connector left side of LCD module..



b. Enter "Integrated Peripherals" of the Main Menu of BIOS CMOS Setup Utility.

Phoenix - AwardBIOS CMOS Setup U Integrated Peripherals					
Onboard Lan Boot ROM	[Disabled]				
SIS 630 OnChip IDE Device	[Press Enter]				
SIS 630 OnChip PCI Device	[Press Enter]				
Onboard SuperIO Device	[Press Enter]				
USB Controller	[Enabled]				
Init Display First	[PCI Slot]				
System Share Memory Size	[32 MB]				

c.Move the arrow key downward to the "Onboard Super IO Device" item

Phoenix - AwardBIOS	CMOS Setup Utility		
<ul> <li>Standard CMOS Features</li> <li>Advanced BIOS Features</li> <li>Integrated Peripherals</li> <li>Power Management Setup</li> <li>PnP/PCI Configurations</li> </ul>	Load Optimized Defaults Set Password Save & Exit Setup Exit Without Saving		
Esc : Quit F9 : Menu in BIOS F10 : Save & Exit Setup	↑↓→+ : Select Item		
Time, Date, Hard Disk Type			

e. Enter "Standard CMOS Features" of the Main Menu of BIOS CMOS Setup Utility.

Phoeni	x - AwardBIOS CMOS Setup l Standard CMOS Features
Date (mm:dd:yy) Time (hh:mm:ss)	Tue, Sep 3 2002 15 : 10 : 14
<ul> <li>IDE Primary Master</li> <li>IDE Primary Slave</li> <li>IDE Secondary Master</li> <li>IDE Secondary Slave</li> </ul>	[ None]
Drive A	[1.44M, 3.5 in.]
Video	[EGA/VGA]

g. Use "Page Up" or "Page Down" key for FDD Installation. Make sure you save the changes by pressing F10 key or moving to "Save & Exit Setup."

	Phoenix - Awa Onboard	rdBIOS CMOS SuperIO Dev
FDC Controller Serial Port 1 Serial Port 2 Serial Port 3 Serial Port 3 U: Serial Port 4 Serial Port 4 Parallel Port M EPP Mode Select ECP Mode Use DM	En 3F 2F 3E 3E 3E 3E 5E IRQ IR 5E IRQ IR 37 5de SP EP 4 1	abled] \$/IRQ4] \$/IRQ3] \$] \$] \$] \$] \$] \$/IRQ7] \$] \$] \$] \$] \$] \$] \$] \$] \$] \$

d. Move the arrow key downward to the "FDC Controller" item. Use "Page Up" or "Page Down" key change to "Enable"

Phoeni:	x - AwardBIOS CMOS Setup U Standard CMOS Features
Date (mm:dd:yy) Time (hh:mm:ss)	Tue, <mark>Aug</mark> 13 2002 10 : 15 : 47
<ul> <li>IDE Primary Master</li> <li>IDE Primary Slave</li> <li>IDE Secondary Master</li> <li>IDE Secondary Slave</li> </ul>	
Drive A	[None]
Video Halt Op	[EGA/VGA] [No. Errors]

f. Move the arrow key downward to the "Drive A" item.

### 4.2 Install External IDE Device



 a. Take out the manufacturer's IDE cable provided in the accessory bag, connect the second HDD or CD-ROM drive to the 50-pin Header as hidden in the Front Cover of the Base Stand.



 b. Connect the IDE cable from either the second HDD or CD-ROM drive to the 50 pin Header hidden in the Front Cover of the Base Stand.

### 4.3 Install MCR Module (Optional)

The optional MCR (Magnetic Card Reader) unit is tested and can be supplied at your request. This MCR is removed during transportation and can be connected by the user. The manufacturer offers two types of MCR Module, either by the Serial type or keyboard type.



 a. Install the MCR module to the right side of System Bay Module and lock it with two screws.



 b. If you select a keyboard type MCR and the system does not connect a standard P/S2 keyboard, please insert the Terminator for simulate and instead of the P/S2 Keyboard.

Note: We have a new version that enhances the Keyboard type MCR. When you select a keyboard type MCR, does not connect a standard P/S2 keyboard or insert the Terminator.

### 4.4 Install Pole Display Module (Optional)

The POS system is equipped with an interface for a connection to a Pole Display Module. Please refer to COM6 of CN7 of jumper setting section.



a. Remove Pole Display cover from POS system unit by fingers.



b. Install Pole Display cover kit onto POS system unit.



c. Install Pole Display flat cable inside Pole Display Tube. Use either two or one tube.



d. Connect Pole Display cable RJ-45 connector to COM6 of POS system.

## 4.5 Install a Compact Flash Card



You can install a compact flash card At the left side of the LCD panel.

### 4.6 Install Cash Drawer



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

### 4.6.1 Cash Drawer Pin Assignment

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



#### 4.6.2 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.

4.6.2.1 Cash Drawer Control Register

Register Location:	200h
Attribute:	Write
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.

#### 4.6.2.2 Cash Drawer Status Register

Register Location:	201h
Attribute:	Read
Size:	8bit



Bit 7-1: Reserved

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

- = 1: the Cash Drawer opened or not exists.
- = 0: the Cash Drawer closed.

### 4.6.3 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
$\checkmark$	Set the I/O address 200h	bit0 =1 for opening Cash Drawer by "DOUT bit0" pin control.
$\triangleright$	Set the I/O address 200h	bit0 = 0 for allow close Cash Drawer.

	Command	Cash Drawer
	l 201	Check status
$\triangleright$	The I/O address 201h bit	) =1 mean the Cash Drawer is opened or not exist.
$\triangleright$	The I/O address 201h bit	) =0 mean the Cash Drawer is closed.

### 4.7 Install Second display (Differential of connector board)



a. Standard connector board.



b. Second display connector board.



c. Second display VGA cable 1



d. Install second display VGA cable replace COM2



e. Second display VGA cable 2



f. A of second display VGA cable 1 connect to D of second display VGA cable 2



g. Power cable of connector board



h. E of power cable connected to connector board.



i. B of second display cable 1 connected to F of power cable.



j. C of second display cable 2 connected to main board.

# 5. Driver Installation

The following procedures are for Windows 2000. Other platforms are similar.

## 5.1 Netmos



a. Indicate the location of the Netmos driver

Locate File					<u>? ×</u>
Look in:	🔄 Win2000		•	+ 🗈 💣 📰•	
History Desktop My Documents My Computer	Nm2kMf				
My Network P	File name: Files of type:	Nm2kMf Nm2kMf.inf;Nm2kMf.in_		<b>•</b>	Open Cancel

b. Choose "Nm2kMf" in the Locate File window.



- c. Click "OK" on the Files Needed window.
- d. Now the Netmos driver is installed.

NetMos PCI Serial Port (COM6)

Ŷ

## 5.2 Elo\_Touch

a. Click "COMMON" on the POS driver window.

COMMON				_
File Edit View Favorites To	ools Help			
🖙 Back 🔹 🔿 🔹 🔂   🥘 Search	n 🔁 Folders	History	$  \stackrel{\rm re}{\to} \propto \times$	S = 1
Address 🔄 COMMON				•
Gr J				
COMMON	Acrobat	BiosTool	CDRomDrv	Elo_Touch
<b>Elo_Touch</b> File Folder Modified: 1/9/2003 11:54 PM	Lan_driver	Netmos	SmartCard	

b. Click "Elo\_Touch" on the COMMON window.

🔁 Elo_Touch				
Eile Edit View Favorites	<u>T</u> ools <u>H</u> elp			
] <= Back → → 💼   🎯 Se	earch 🖓 Folders	History	R & X	n 📰
Address 🖳 Elo_Touch				-
Elo_Touch	ELO 2D	Elo DOS	Elo Linux	elo98
Select an item to view its description.	EloWin2000	EloWin9X	EloWinNT	EloWinXP
See also:				

c. Choose the OS to be installed with Elo \_Touch driver.

х

nitorMouse for Windows 2000 Setur



- Welcome to Elo's MonitorMouse for Windows 2000 Setup. This program will install the Elo touchmonitor driver on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. < Back Next > Cancel
- d. Click "Setup" on the EloWin2000 window.



d. Choose "COM5" and click "Next" on the Elo MonitorMouse for Windows 2000 Setup window. e. Click "Next" on the Elo MonitorMouse for Windows 2000 Setup window.



e. Click "Finish" on the Elo MonitorMouse for Windows 2000 Setup window.

System 9	Gettings Change 🔀					
?	You must restart your computer before the new settings will take effect.					
Ŷ	Do you want to restart your computer now?					
	Yes No					

- Fourth the targets from a position of normal use.
- f. Click "Yes" on the System Settings Change.
- g. After the computer restarted, touch the targets with your finger for alignment.

Check Video Alignment	C Elo TouchSyste
Touch different areas on the screen. Does the cursor jump to your fingertip?	Π
	TOUCHS
Align will cancel in 30 seconds. Press Esc key to cancel now.	13T216 TOW
Yes No	

h. Click "Yes" on the Check Video Alignment window.



i. Click "Finish" on the "Elo TouchSystem Setup window.





- j. If the cursor is not in sync with your finger tip, click "Align..." to execute the alignment procedure again, or click "OK"
- k. Now the Elo\_Touch driver is installed.

### 5.3 LAN-driver

COMMON				
File Edit View Favorites	Tools Help			
🗘 🖙 Back 🔹 🔿 🔹 🔂 🧟 Sear	ch 📑 Folders	History	$ $ $\mathbb{C}$ $\times$	S =
Address 🖳 COMMON				
<u>77'</u> 0				
COMMON	Acrobat	BiosTool	CDRomDrv	Elo_Touch
Lan_driver File Folder				
Modified: 1/9/2003 11:54 PM	Lan_driver	Netmos	SmartCard	

- a. Click "COMMON" on the POS driver window.
- b. Click "Lan driver" on the COMMON window.



c. Click "REL8100" on the Lan\_driver window.



d. Click "Setup" on the REL8100 window.



f. Click "Finish" on the InstallShield Wizard.



e. Click "Next" on the InstallShieild Wizard.

g. Now the Lan\_driver is installed.

### 5.4 VGA

🖳 B75DRV (D:) - Microsoft Interne	t Explorer				
File Edit View Favorites To	ols Help				
🛛 🖙 Back 🔹 🖘 👻 📘 🔞 Search	Polders	History	B C 🗙	n	
Address 🔙 375DRV (D:)					▼ ∂⊙
				<u> </u>	
B75DRV (D:)	AUTOFILE	855	829	863	865
Select an item to view its description.	B74	B75		Datasheet	IE5



Select an item to view its description

a. Click "B55" on the POS driver window.

📑 VGA - Microsoft Internet Explo	er			
File Edit View Favorites To	ools Help			
🗧 🗢 Back 🔹 🖘 👻 📘 🔞 Search	n 🔁 Folders	CHistory	Tr Tr 🗙	n 📰 -
Address 🖳 VGA				
VGA	UTILITY	WIN2000	WIN9X	WINNT40
Select an item to view its				

#### c. Click "Win2000" on the VGA window.



e. Click "Next" on the Welcome window.



g. Click "Next" on the Select Program Folder window..

b. Click "VGA" on the B55 window.

🖥 WIN2000 - Microsoft Internet Ex	plorer					_ 8 ×
File Edit View Favorites Too	ils Help					1
🗢 Back 🔹 🖘 👻 🔞 Search	Polders	()History	13 PC 🗙 🛛	n III-		
Address 🖳 WIN2000						Links ×
WIN2000	AGP	SETUPDIR	SETUPDLL	SETUPRES	UTILRES	
Select an item to view its description.	WIN2000		ISDEL	SY51	Carlos Ca	
See also: My Documents My Network Places My Computer	DATA.TAG				os	
	SETUP	SETUP	<b>SETUP</b>	SETUP.ISS	SETUP.LID	

d. Click "SETUP" On the VGA2000 window.



f. Click "Next" on the Setup Type window.



h. Click "Next" on the Select Copying Files window.



- i. Click "Finish" on the Setup Complete window.
- Action
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- j. Now the VGA driver is installed.

# 6. Jumper Setting

## 6.1 B65(POS500) Jumpers and DIP Switches Locations



6.1.1 Compact Flash CS Selection	* Factory Default
	i dotory boladi

Function	JP1
*Master	OPEN
Slave	SHORT

#### 6.1.2 CMOS Operation Mode

Function	JP2 (SHORT)
*CMOS Normal	2-3
CMOS Reset	1-2

#### 6.1.3 Card Reader Selection

Function	JP3
*Serial	1-2, 3-4 SHORT
Keyboard	1-2, 3-4 OPEN

#### 6.1.4 Power Mode

Function	JP5	JP8
ATX Power	2-3	OPEN
*AT Power	1-2	SHORT

#### 6.1.5 System Clock Selection: JP9

	PCI Clock	JP9 (SHORT)			
CPU Clock I Of Older		FS0	FS1	FS2	FS3
100.3MHz	33.43 (/3) MHz	1-3	7-9	2-4	10-12
*66.8MHz	*33.40 (/2) MHz	1-3	7-9	4-6	10-12

#### 6.1.6 PCI VSB Selection: JP10

Function	JP10 (SHORT)
*USER 5VSB	2-3
USER 3VSB	1-2

#### 6.1.7 COM5 / COM6 IRQ Selection: JP11

IRQ COM	5	9	10	11	12	15
COM5 Touch Screen	*1-2	3-4	5-6	7-8	9-10	11-12
COM6 Pole Display	13-14	*15-16	17-18	19-20	21-22	23-24

### 6.1.8 M-Systems Disk On Chip <sup>®</sup> Address: JP12

Address	JP12 (SHORT)	
0CC00 - 0CDFF	1-2	9-10
0D000 - 0D1FF	3-4	7-8
*0D400 - 0D5FF	3-4	9-10
0D800 - 0D9FF	5-6	7-8
0DC00 - 0DDFF	5-6	9-10

#### 6.1.9 RAM Backup Address Setting: JP14

RAM DATA Address	JP14(SHORT)
*D800 : 0	1-2
D000 : 0	3-4
NC	5-6

#### 6.1.10 Watch Dog Timer List: JP17

Input / Output	Address	JP17
Output	205W	Watch Dog ON
Input	205R	Watch Dog WDI
Input	204R	Watch Dog OFF

#### 6.1.11 Watch Dog Timer Programming:

This jumper is designated to do the setting of the Watch Dog Time.

		-	
Time	1-2	3-4	5-6
0.1 sec	SHORT	SHORT	SHORT
0.5 sec	SHORT	SHORT	OPEN
1.0 sec	SHORT	OPEN	SHORT
*1.6 sec	SHORT	OPEN	OPEN
10 sec	OPEN	SHORT	SHORT
1 min	OPEN	SHORT	OPEN
10 min	OPEN	OPEN	SHORT
1hr	OPEN	OPEN	OPEN

Note:





#### 6.1.12 Pin1 function of COM port selection: CN7



СОМ	Function	Jumper (SHORT)
1	*DCCD	1-2
	+5V	3-4
	+12V	5-6
	*DCCD	7-8
2	+5V	9-10
	+12V	11-12
	*DCCD	13-14
3	+5V	15-16
	+12V	17-18
	*DCCD	19-20
4	+5V	21-22
	+12V	23-24
6	*DCCD	25-26
	+5V	27-28
	+12V	29-30
	NC	31-32
	NC	33-34
Note:		

Note:

OPEN

SHORT

## 6.2 B55(POS500/505) Jumpers



6.2.1 Power Supply Type	* Factory Default Setting
Function	JP6
*ATX Power	2-3 (SHORT)
AT Power	1-2 (SHORT)

#### 6.2.2 CMOS Operation Mode

Function	JP13 (SHORT)	JP15 (SHORT)
*CMOS Normal	1-2	1-2
CMOS (Clear)	2-3	2-3

Note:





# 7.B55 I/O Board Jumper Setting



## 7.1 Pin1/Pin9 Function of COM Port Selection: JP1



	r actory Default Setting		
PIN	Function	Jumper (SHORT)	
	*DCCD	1-2	
1	12V	3-4	
	5V	5-6	
	*RI	7-8	
9	12V	9-10	
	5V	11-12	
	*DCCD	13-14	
1	12V	15-16	
	5V	17-18	
	*RI	19-20	
9	12V	21-22	
	5V	23-24	
	PIN 1 9 1 9 9 9	PIN         Function           *DCCD           1         12V           5V           9         12V           5V         5V           9         12V           5V         5V           5V         5V           1         12V           5V         5V           1         12V           5V         5V           9         12V           5V         5V           5V         5V	

## 7.2 Cash Drawer Power Selection: JP2

Function	Jumper (SHOR	Т)
*24V	1-2, 3-4	
12V	5-6, 7-8	
Note:		