

SB9015F All-in-one Touch POS Terminal (i3 Processor)



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1 Introduction

Thank you for purchasing the SB9015F(i3) all-in-one touch POS terminal, Bematech is committed to continuously improve product quality and provide better after-sales service. In order to take full advantage of our devices, we strongly recommend that you take the time to read this manual before diving into software solution.

Note: Information in this manual may change without prior notice.

1.1 Safety Information

- Before plug in the product, please make sure the power you provide meets the power requirements (such as voltage, frequency); Make sure the ground terminal of the power outlet is working properly.
- To avoid electric shocks, disconnect the power cord from the electrical outlet before relocating the system.
- Lightning may damage this product. During lightning storms, unplug the network cable, power cable and any other connections.
- Turn off power before connecting any devices (except USB devices) to the terminal.
- Do not attempt to open the chassis. You may be hurt by electric shock. For service, call your place of purchase.
- Do not spill liquid on the terminal. Do not place any objects into the ventilation holes of this product. It may cause short-circuit of the internal components and cause a fire or electric shock.
- After the terminal is stored below temperature of 10 ° C, please place it in room temperature (10-35 ° C) in the original packing for at least two hours to allow the terminal to restore to room temperature before operation. This is to avoid condensation that might cause electrical damage.
- Keep the terminal clean, dry, and away from dust, moisture and direct sunlight.

- Do not use harsh chemicals or strong cleaning solvents to clean the monitor screen. Wipe it clean with a soft terry cloth applied with a mild solution
- Do not share the same power outlet with high-power electrical appliances; keep distance from high level magnetic interference.
- Do not the use sharp pointed objects to work with the touch screen to avoid damage to the screen.

When the following occurs:

- Liquid gets inside the POS terminal;
- Accidental physical damage;
- The power cord or plug is damaged;
- POS terminal produces a burning smell;

Immediately disconnect the power supply, unplug the power cord, and contact a qualified service technician.

1.2 Electromagnetic compatibility statement

FCC NOTICE

This device complies with Part 15 of FCC Rules. Operations are subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

EUROPEAN COMMUNITY (CE) MARK OF CONFORMITY

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. Logic Controls cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product. This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to protection provide reasonable against interference with licensed communication equipment.

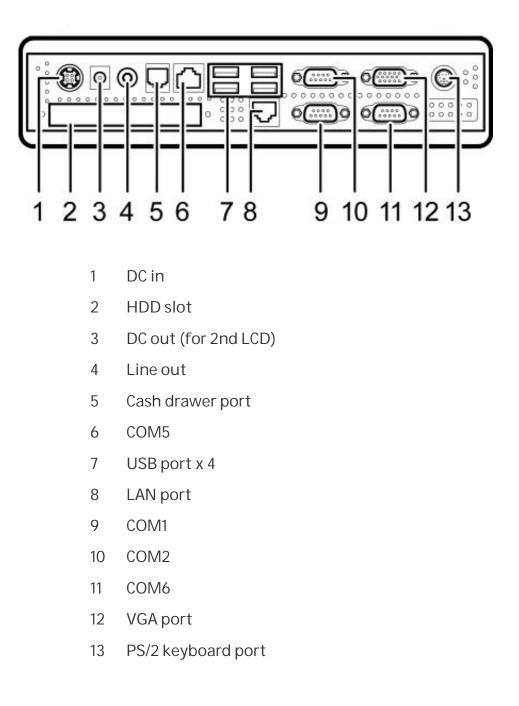
2 Overview

2.1 Appearances

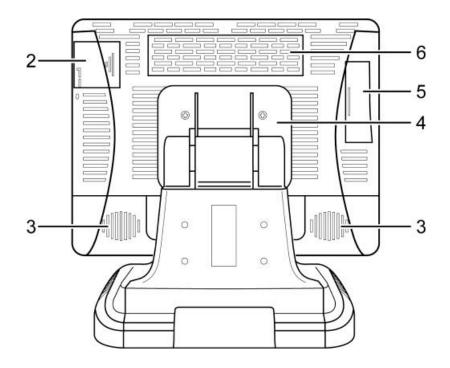


2.2 Rear panel I/O connectors

At the rear panel of the SB9015F is a row of external I/O device connectors detailed as follows:

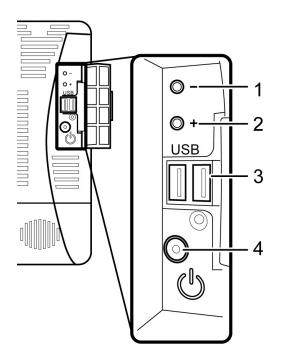


2.3 Rear View



- 1 VESA holes
- 2 MSR module compartment
- 3 Speakers
- 4 VESA routing plate
- 5 Control panel
- 6 Display module compartment (for Customer display or 2nd LCD)

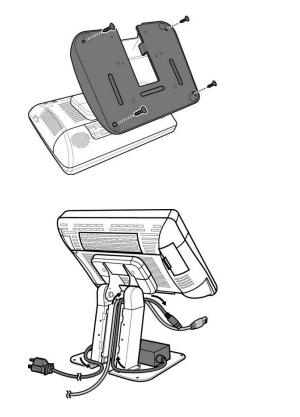
2.4 Control Panel

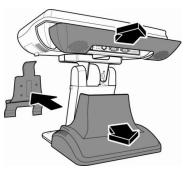


- 1 Brightness Press the "Brightness –" button to decrease brightness. The setting will be saved 6 seconds after releasing the button.
- 2 Brightness + Press the "Brightness +" button to increase brightness. The setting will be saved 6 seconds after releasing the button.
- 3 USB ports Connect external peripherals such as a memory drive.
- 4 Power Button Press to turn the POS terminal on or off. The LED lights up blue when the power is on.
- *Note:* Press the "Brightness –" and "Brightness +" buttons at the same time to restore brightness to the factory default setting.

3 Hardware Installation

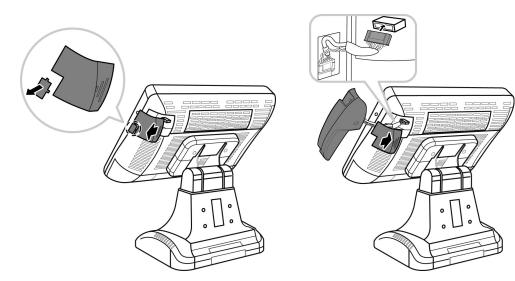
3.1 Cable Routing



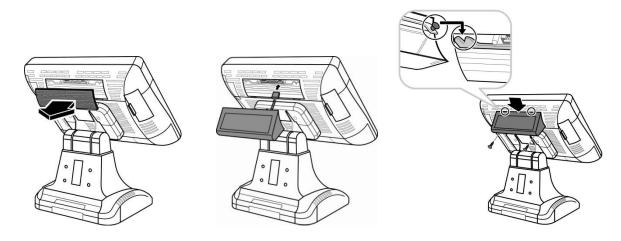




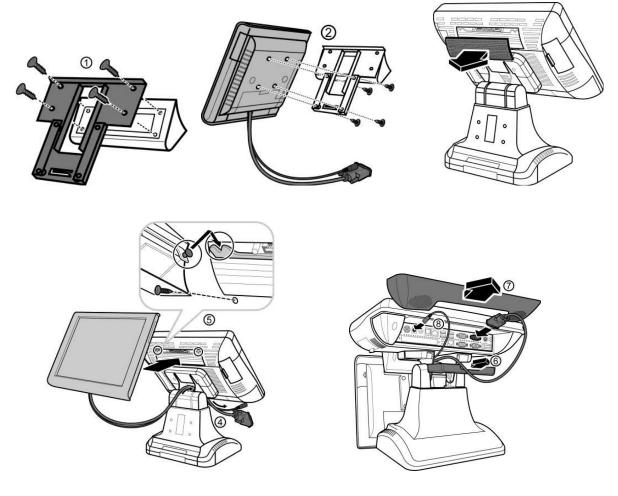
3.2 Installing MSR



3.3 Installing Customer Display



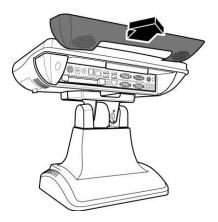
3.4 Installing Second LCD



3.5 Replacing System Core



3.6 Replacing Hard Disk Drive

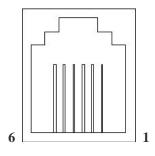




4 Setup and Driver Installation

4.1 Cash Drawer Port

Pin-out



Pin	Description
1	Sense input 2
2	Drive output 1
3	Sense input 1
4	+24V/+12V
5	Drive output 2
6	Ground

Note:

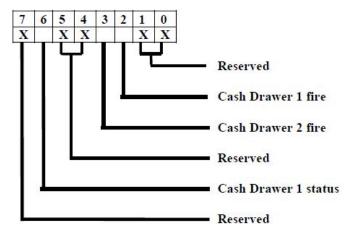
The Y cable used to support two cash drawers on the single RJ-11 socket is same as that for Epson printers.

Operation

The Cash Drawer Controller use one I/O address to control the Cash Drawer.

I/O address	48Ch
Attribute	Read/Write
Size	8 bits

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Re	ad	Rese	erved	W	rite	Res	erved

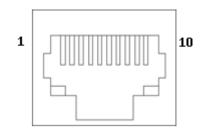


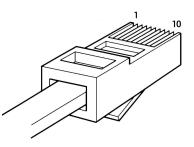
4.2 Serial Ports Configurations

Connectors	Function	Pin 9 Power Support
COM1	External, RS232	RI/+5V/+12V select by jumper
COM2	External, RS232	RI/+5V/+12V select by jumper
COM3	Customer Display	+5V only
COM4	External, RS232 (RJ45)	RI/+5V/+12V select by jumper
COM5	Touch controller	+5V only
COM6	External, RS232	RI/+5V/+12V select by jumper

COM4 RJ45 Socket Pin Assignment

RJ45-10 Pin No.	Signal Name
1	NC, or +5/+12 VDC
2	GND
3	DTR
4	CTS
5	ТХ
6	RTS
7	RX
8	DSR
9	DCD
10	NC





4.3 Jumper settings

JP3 - Clear CMOS Contents					
123	1-2	Normal	Default Normal		
	2-3	Clear CMOS	Default=Normal		

JP6 - CN7 Cash Drawer Power Selection					
123	1-2	+24V	Default=+24V		
	2-3	+12V	Derduit=+24v		

JP7 - CN1 USB Power Selection					
123	1-2	+5VSB	Default . EVCD		
	2-3	+5V	Default=+5VSB		

JP8 - CN4 USB Power Selection					
123	1-2	+5VSB			
	2-3	+5V	Default=+5VSB		

JP9 - COM4 RS232 pin 9 function select					
246	1-2	RI			
	3-4	+5V	Default=RI		
135	5-6	+12V			

JP10 - COM6 RS232 pin 9 function select				
246	1-2	RI		
	3-4	+5V	Default=RI	
135	5-6	+12V		

JP11 - COM2 RS232 pin 9 function select			
246	1-2	RI	
	3-4	+5V	Default=RI
135	5-6	+12V	

JP12 - COM1 RS232 pin 9 function select			
246	1-2	RI	
000 0 00	3-4	+5V	Default=RI
135	5-6	+12V	

JP13 - PS/2 Keyboard Power Selection				
123	1-2	+5VSB		
	2-3	+5V	Default=+5VSB	

Note:

Do not plug in or unplug any connector except USB devices when the power is on.

The current loading for all COM ports should not exceed DC 5V/3A and DC 12V/2A.

4.4 Motherboard BIOS settings

The POS terminal has a BIOS (Basic Input Output System) chip on the motherboard. Every time you start the terminals, the system will first run the BIOS self-test routine to check the main components of the system to ensure it is working properly.

The terminal is loaded with default BIOS settings in the factory. Please do not change the parameters in the BIOS unless necessary.

In the following situations, you need to run the BIOS setup:

- 1) Error message appears on the screen during the system self-test and requested to enter BIOS setup.
- 2) If you need to change the factory default settings to customized application requirements (for example, boot device priorities).

Control keys

<^>	Move up to previous item
$<\downarrow>$	Move down to next item
<↔>	Move left to previous menu
$<\rightarrow>$	Move right to next menu
<enter></enter>	Select this option/sub-menu
<+>	Increase the option value or change selection
<->	Reduce the option value or change selection
<f1></f1>	Help
<f2></f2>	Restore previous values
<f3></f3>	Load optimized default values
<f4></f4>	Save and Exit
<esc></esc>	Exit the menu or to return to the main menu from the submenu

Main Menu

System Time and Date Setting: Under <Main>, select < System Date > or <System Time> to change the system date and time.

Main Advanced Chipset	Boot Security Save &	Exit
BIOS INFORMATION		
Build date and time	05/14/2013 19:02:18	
BIOS Version	J1G	
		$\rightarrow \leftarrow \texttt{Select Screen}$
		$_{\uparrow\downarrow}$ Select Item
System Date	[Tue 01/06/2009]	Enter: Select
System Time	[00:08:21]	+- Change Field
		F1:General Help
		F2:Previous Values
Access Level	Administrator	F3: Optimized Default
		F4: Save & Exit
		ESC: Exit

Advanced Tab

ACPI Suspend Type Setting: Under <Advanced>, select <ACPI Setting >, select < ACPI Sleep State > configure S3 to S1.

Main Advanced Chipset I	Boot Security Save & E:	xit
Enable Hibernation ACPI Sleep State	Enabled S3 (only suspend to)	 → ←Select Screen ↑↓ Select Item Enter: Select +- Change Field F1:General Help F2:Previous Values F3: Optimized Default F4: Save & Exit ESC: Exit

Main Advanced Chipset	Boot Security Sav	e & Exit
SATA Controllers(s) SATA Mode Selection	Enabled	Enable or disable SATA Device
Serial ATA Port 0 Software Preserve Serial ATA Port 1 Software Preserve	Empty Unknown Empty Unknown	 → ←Select Screen ↑↓ Select Item Enter: Select +- Change Field F1:General Help F2:Previous Values F3: Optimized Default F4: Save & Exit ESC: Exit

AHCI Setting: Under < Advanced >, select <SATA Mode Selection>.

Hardware Monitor Check: Under < Advanced >, select < F81866 H/W Monitor >.

Main Advanced Chipset	Boot Security	Save & Exit
PC Health Status		
		\rightarrow \leftarrow Select Screen
CPU temperature	+39 C	$_{\uparrow\downarrow}$ Select Item
System temperature	+42 C	Enter: Select
Sys FAN Speed	6602 RPM	+- Change Field
Vcore	+1.128 V	F1:General Help
		F2:Previous Values
VCC5V	+5.043 V	F3: Optimized Default
VCC12V	+12.058 V	F4: Save & Exit
+1.5V	+1.524 V	ESC: Exit
VCC3V	+3.374 V	

Com and Parallel Port IRQ Setting: Under < Advanced >, select < F81866 Super IO Configuration >.

Main Advanced Chipset Boot Sec	curity Save &	¿Exit
Super IO Configuration		
		\rightarrow \leftarrow Select Screen
F81866 Super IO Chip	F81866	$\uparrow \downarrow$ Select Item
▶ Serial Port 0 Configuration		Enter: Select
▶ Serial Port 1 Configuration		+- Change Field
► Serial Port 2 Configuration		F1:General Help
Serial Port 3 Configuration		F2:Previous Values
▶ Serial Port 4 Configuration		F3: Optimized Default
 Serial Port 5 Configuration 		F4: Save & Exit
 Parallel Port Configuration 		ESC: Exit
Power Failure Always of		

Boot Tab

Use <+> and <-> to arrange the boot sequence. See the BIOS documentation for more information.

Main Advanced Chipset Boot	Security Save	& Exit
Boot Configuration		
Setup Prompt Timeout	1	
Bootup NumLock State	On	\rightarrow \leftarrow Select Screen
		$_{\uparrow\downarrow}$ Select Item
CSM16 Module Version	07.69	Enter: Select
		+- Change Field
GateA20 Active	Upon Request	F1:General Help
	opon nequebe	F2:Previous Values
Post Option Drievities		F3: Optimized Default
Boot Option Priorities		F4: Save & Exit
		ESC: Exit
► CSM parameters		

Security Tab

Set the Supervisor or User password first to use the security features.

Main Advanced Chipset Boot Security Save & Exi	t
Password Description	
If ONLY the Administrator's password is set,	
then this only limit access to Setup and is only	
asked for when entering Setup.	\rightarrow \leftarrow Select Screen
If ONLY the User's password is set, then this	$_{\uparrow\downarrow}$ Select Item
is a power on password and must be entered to	Enter: Select
boot or enter Setup. In Setup the User will have	+- Change Field
Administrator rights	F1:General Help
The password length must be	F2:Previous Values
in the following range:	F3: Optimized Default
Minimum length 3	F4: Save & Exit
Maximum length 20	ESC: Exit
Administrator Password	
User Password	

Save& Exit

Restore the Factory Default Setting: Under <Save & Exit>, select < Restore Defaults > and select <Yes>.

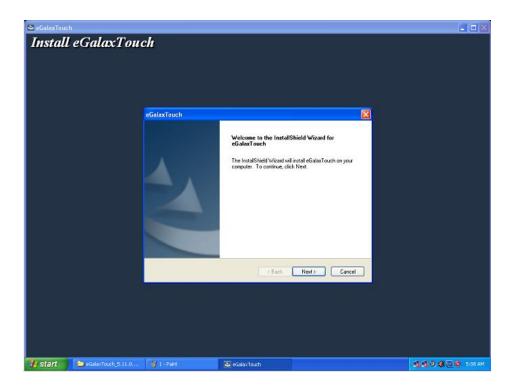
Main Advanced Chipset	Boot	Security	Save & E	xit
Save Changes and Reset				
Discard Changes and Res	et			
				$\rightarrow \leftarrow \texttt{Select Screen}$
Save Options				$\uparrow \downarrow$ Select Item
Save Changes				Enter: Select
Discard Changes				+- Change Field
				F1:General Help
Restore Defaults				F2:Previous Values F3: Optimized Default
Save as User Defaults				F3: Optimized Default F4: Save & Exit
Restore User Defaults				ESC: Exit

4.5 Touch screen driver installation

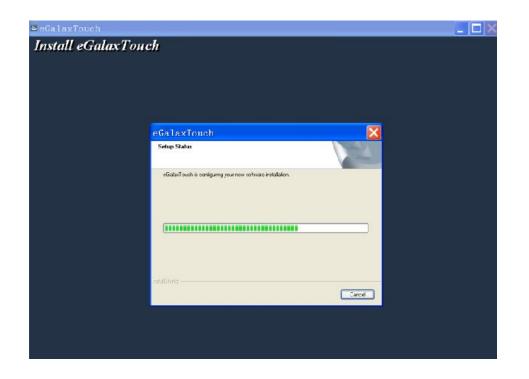
Step 1: Navigate to the installer directory to find the setup.exe file. Double-click on "setup.exe" to start installation.

-	e Edit View Pavorites Tools Heli Back = 🕥 - 🎓 🔎 Search			1
illine and in the second	ress 🔁 FileGalaxTouch_5.11.0.9126 he			🛩 🛃 Go
aniar S		debd x65 555 15 debd s65 debd s65 debd s65 debd s65 s65 </th <th>x4 Star dl. 20.05,4975 12.05,4974 12.05,4974 12.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 <td< th=""><th></th></td<></th>	x4 Star dl. 20.05,4975 12.05,4974 12.05,4974 12.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 13.9 20.05,4974 <td< th=""><th></th></td<>	
		Stop 10 10 10 10 10 10 10 10 10 10 10 10 10	BOLD 1072 BB 1072 BB 1072 BB 1074 BB 1074 BB 1074 BB 1074 BB 1074 BB Image: State Sta	

Step 2: When installation starts, click [Next] to proceed to the next step.



Step 3: Installation in progress



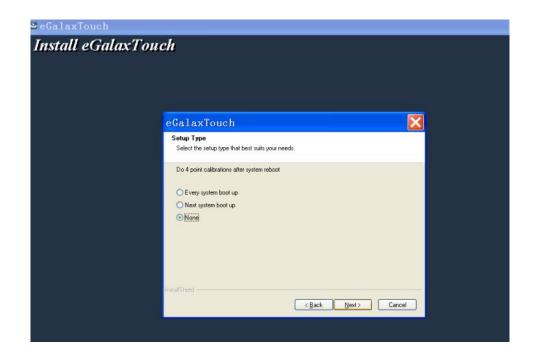
Step 4: Uncheck "Install PS/2 interface driver" and click [Next] to continue installation.

🛎 eGalaxTouch		
Install eGalaxTou	ch	
	eGalaxTouch	
	Setup Type	
	Select the setup type that best suits your needs.	
	Extra PS/2 interface driver for eBalaxT ouch controller. Please check the check box for PS/2 touch controller.	
	Install PS/2 interface driver	
	InstalShield	
	(Back Next) Cancel	
start 📁 eGalaxTouch_5.11.0	19 2 - Paint 🖸 couls3./-15	<u>ାରି ପ୍ରତି</u> ପ୍ରଶ୍ୱା 🖸 🖉 5:09 AM

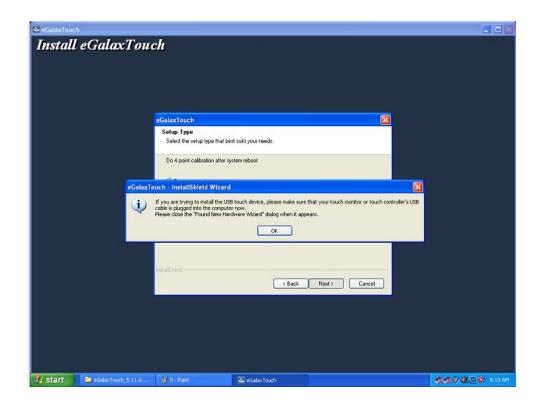
Step 5: Uncheck "install RS232 interface driver" and click [Next] to continue installation.

😂 eGalaxTouc	<u> </u>				
Install	l eGalaxTou	ch			
		2			
		eGalaxTouch			
		Setup Type Select the setup type that be	st suits your needs.		
		Extra RS232 interface driver Please check the check box	for eGalaxTouch controller. for RS232 touch controller.		
		✓ Install RS232 interface d	ive		
		InstallShield	< Back	Next > Cancel	
🐉 start	GalaxTouch_5.11.0	🔰 3 - Paint	CalaxTouch		🛝 🖏 🧶 🌒 🛄 🔮 5:09 AM

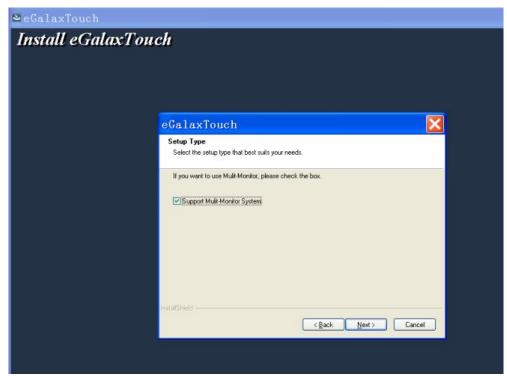
Step 6: Select option "NONE", click [Next] to continue installation.



Step 7: When installing USB touch, please connect the USB controller and USB cable



Step 8: If there are additional touch monitors connected, please check "Support multi-monitor system".



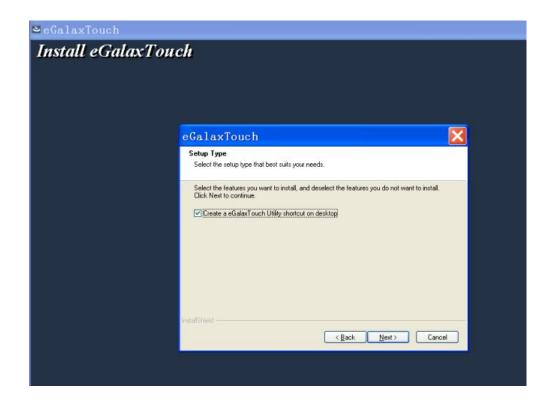
Step 9: Select the destination location to install the touch driver. The default path is "C: \ Program Files \ eGalaxtouch". Click [Next] to continue installation.

eGalaxTouch	
Install eGalaxTou	cn
	eGalaxTouch
	Choose Destination Location Select folder where setup will install files.
	Setup will install eGalaxTouch in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
	Destination Folder C:VProgram FilesVeGalaxTouch Browse
	InstaliShieldCancel

Step 10: Select the Program Folder to install the utility. The default is "eGalaxtouch". Click [Next] to continue installation.

🛎 eGalaxTour	ĥ			— • ×
Install	l eGalaxTou	ch		
		eGalaxTouch		
		Select Program Folder		
		Please select a program folder.		
		Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Dlick Next to continue.		
		Program Folder.	12	
		eGalwTouch	-	
		Existing Folders: Accessories	1.1	
		Administrative Tools Futuremak Games Startup		
		InstaliGheld Cance		
🐮 start	eGalaxTouch_5.11.0	19 9-Paint 🔤 eGainst@v/s15		

Step 11: Check the option to create a desktop shortcut icon.



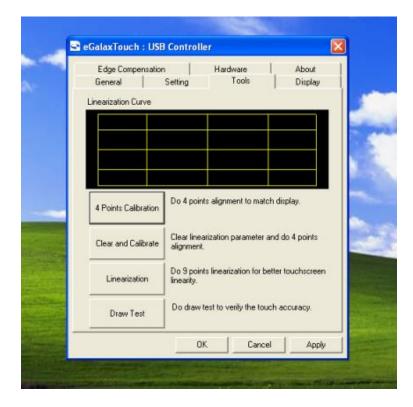
After install the driver successfully, identify the USB controller is installed as shown below.

	Edge Compen General	sation Setting	Hardware Tools	About Display	
9N		nscreen Controlle		Copidy	1
	USB				- mail
	USB Controlle	¢			2
					1.0
					_
					1.50
ill nice					
	Monitor Mapping		Add	Remove	
1.55					
					2

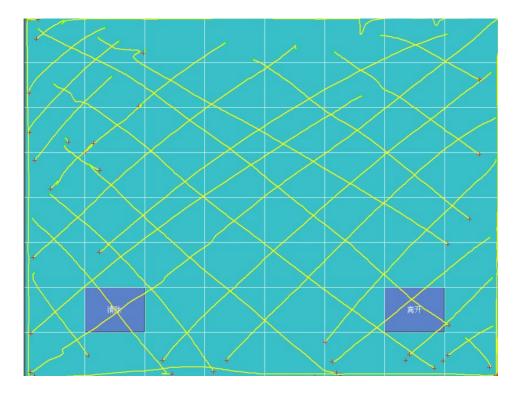
Touch function settings

and the second	Edge Compensation	Hardware	About	
-	General Setting	Tools	Display	
	Beep ✓ Beep On Touch ✓ Beep On Release ✓ Beep From System Beep	Frequency	_ ≪⊧	
	Beep From Sound Card	1		
	Linearization Style 9 Points 25 Points			
	Double Click Time		>>Longer	
5160	Double Click Area			-
	Smaller<<		>>Bigger	
	Click On Touc	h	Option	

Touch calibration



Touch device line test



5 Troubleshooting

1) Terminal does not boot

If the terminal cannot boot after repeated pressing of the power switch when connect to the power, the terminal power light remains off, the fan does not operate, and the BIOS beeping is not heard, it might be power supply problems.

(a) Check the power adapter is plugged in correctly to the power outlet.

(b) Check the connection between the terminal and the power adapter, and then re-boot the machine.

(c) If the terminal is working in high temperature environment that causes the terminal automatically shut down in protection mode, please disconnect the power of the machine. Wait until environment temperature has dropped and restart.

(d) If the terminal does not boot after a sudden power failure or illegal shutdown, unplug the adapter from the terminal, and press the power button several times. Then plug in the adapter and boot again.

(e) If the adapter light blinks or go off, unplug the adapter immediately and do not plugged in again. Contact with our products service center.

2) The terminal automatically restart (or shutdown)

If terminal is frequently automatic shutdown or auto-boot during operation (or boot up),

(a) Check the power supply is connected properly; make sure the plug is not loose and contacts are in good condition;

(b) Check if the AC line voltage is stable;

(c) A sudden power failure or improper shutdown may cause this problem. Press F8 to boot system into safe mode and debug.

(d) If any new hardware is added or replaced that caused this problem, remove the hardware and reboot;

(e) If the above steps do not resolve this problem, reinstall the operating system.

3) The touch screen does not respond

(a) Remove the touch driver and then install it again.

(b) Execute the "eGalaxTouch utility and check if the interface port is working.

4) When touching the screen, cursor always returns to a fixed position.

(a) Check if there is anything pressing on the touch screen.

(b) Other high power or high frequency equipment may affect the screen or controller. Make sure that the touch screen is away from the high-voltage equipment.

(c) The touch screen driver is not installed correctly, install the driver (please refer to the "Touch Screen Setup") and run a 25-point calibration.

5) Touch screen is not accurate

Please run the touch screen calibration program with a 25-point recalibration, we also recommend you to do this after change the monitor resolution or refresh rate. When running the calibration, touch the center of calibration point to assure accuracy.

6) The cursor moves opposite to the touch movement

(a) Run the 4/9/25 point calibration.

(b) The touch screen driver is not installed properly, reinstall the driver.

7) The cursor fixed at the edge of LCD

(a) Check if the edge of the screen is being pressed by something.

(b) Check the edges of the LCD if there is anything jammed in the front bezel.

(c) Make sure the touch screen is clean.

8) The cursor in the touch screen can only move in a small area or touch positions are inaccurate.

(a) This situation usually occurs first time after installing the driver. Please run the touch screen calibration program. We also recommend you to do this after changing monitor resolution.

(b) Run the touch screen calibration program to do a 25-point recalibration.

6 Specifications

System ChipsetHM65Memory2 slots, DEStorageSATA 2.5 in Display 15" TFT LCILCD panel15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O Ports1x DC jackPS/2 Port1x PS/2 key	10E Processor dual core 2.1GHz DR3 1066/1333, up to 4GB nch Hard Disk Drive, 320GB or higher D
CPUIntel i3-23System ChipsetHM65Memory2 slots, DEStorageSATA 2.5 inDisplayIntel i3-23LCD panel15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsIx DC jackPS/2 Port1x PS/2 key	DR3 1066/1333, up to 4GB nch Hard Disk Drive, 320GB or higher
System ChipsetHM65Memory2 slots, DEStorageSATA 2.5 in Display 15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	DR3 1066/1333, up to 4GB nch Hard Disk Drive, 320GB or higher
Memory2 slots, DEStorageSATA 2.5 in Display 15" TFT LCILCD panel15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsExternal DC Input1x PS/2 key	nch Hard Disk Drive, 320GB or higher
StorageSATA 2.5 inDisplay15" TFT LCILCD panel15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O Ports1x DC jackPS/2 Port1x PS/2 key	nch Hard Disk Drive, 320GB or higher
DisplayLCD panel15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	
LCD panel15" TFT LCIResolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	D
Resolution1024x768Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	D
Brightness250cd/m²Touch Screen5-wire resiTilting Angle0 to 90°I/O PortsI/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	
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Tilting Angle0 to 90°I/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	
I/O PortsExternal DC Input1x DC jackPS/2 Port1x PS/2 key	istive touch (RS232 interface)
External DC Input1x DC jackPS/2 Port1x PS/2 key	
PS/2 Port 1x PS/2 key	
	(connected to power adapter)
Serial Ports 3x DB9 with	yboard
	th DC5V/12V on pin 9 (jumper option),
1x RJ45	
Parallel Port Optional 1	x DB25 on cable
VGA 1x DB15 2 nd	^d video VGA connector
LAN 1x RJ45, 10	/100M/1Gbit
USB 6x USB 2.0)
Cash Drawer Port 1x RJ11, 12V	//24V jumper selectable
Audio 1x audio o	ut, 2x 1W built-in speaker
DC Output 1x DC 12V of	output
Environment	
Operating Temperature 0°C to 40°C	С
Storage Temperature -25°C to 70	D°C
Relative Humidity 8% to 80%	6 non-condensing
Electrical (External Power Adapter)	
Input 100V to 24	OVAC, 50 to 60Hz, 2.0A
Output DC 24V 5A	
Output Power 120W max	
Mechanical	
Dimensions 329x348x2	
Weight 10Kg	213mm
5 5	213mm

SB9015F All-in-one Touch POS terminal



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