



SB-9090 All-in-One System



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Notice

- All Information in this manual may change without prior notice.
- To ensure safety operation of this product, please read the following menu carefully before using this product.

Safety Information

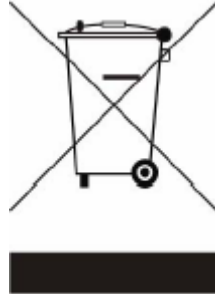
- To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
- Read these instructions carefully. Save these instructions for future reference.
- Follow all warnings and instructions marked on the product.
- Do not use this product near water.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 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.
- 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.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- 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.

Caution on Lithium Batteries

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

Legislation and Weee Symbol

2002/96/EC Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Package Contents

Standard Items:

1. System
2. Driver bank CD
3. Power adapter
4. Power cord

Accessory items

	Part Number	Description	Quantity
1	3XCC00000010	Touch Screen Wipes ,20 x 15mm	1
2	3XPP00000010	SPIRAL WARPING BANDS SWB-16,L15mm	1
3	7P0000000030*	SCREW PACK: security screws*	1
		Screw driver	1

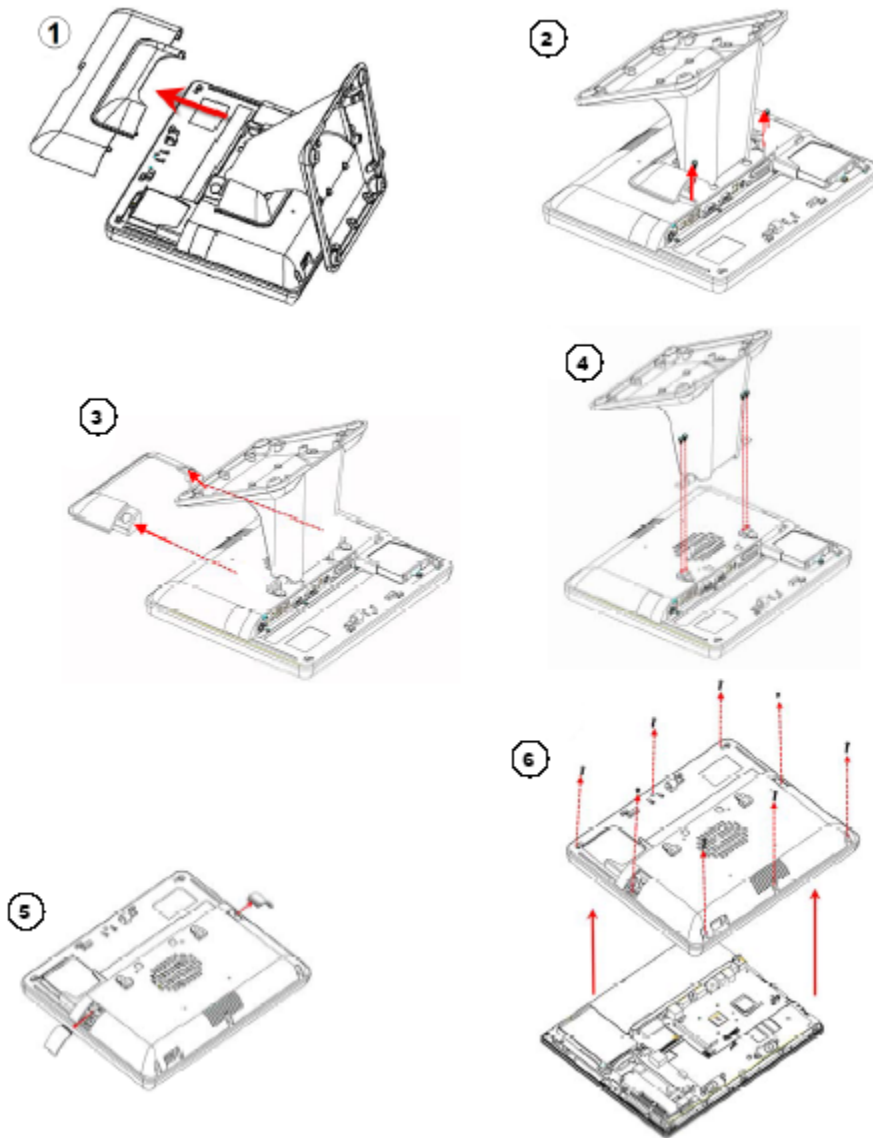
* There are the security screws and a screw driver for replacing the hard drive screws.

* Customers can replace special the screws to ensure the HDD data security.

System Assembly and Disassembly

1. Open the System

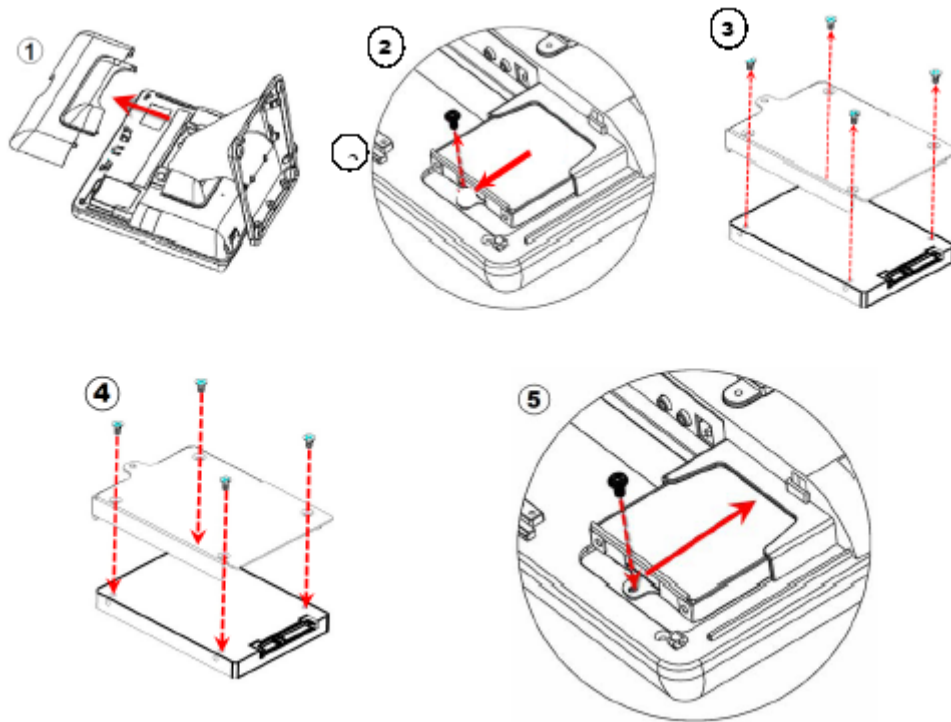
To access the inside system, you need to open the system first and the procedure of opening the system is as below:



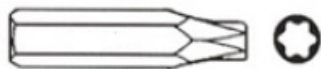
2. Replace the Hard Drive

- 1) Slide out the back cover.
- 2) Remove the screw and pull out the hard drive.
- 3) Release the four round screws from the hard drive tray and replace the hard drive.

- 4) Screw the round screws back on the hard drive tray and insert the hard drive tray into the system hard drive slot.
- 5) Fix the hard drive with screw on the system.

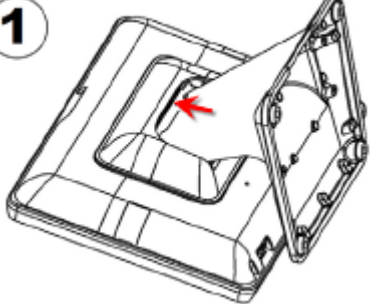
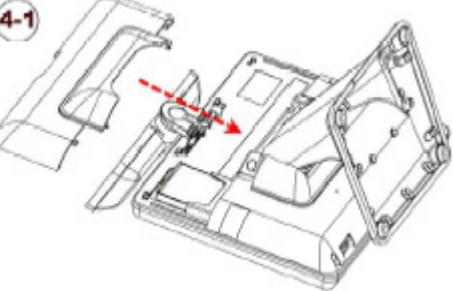


Security Screws



These are security screws and a screw driver for replacing the hard drive. Customers replace the special screws to ensure hard drive security.

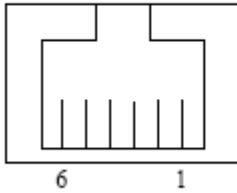
3. Customer Display Installation

	1) Put the panel on the flat table & open the I/O back cover of system.
	2) Assembly the customer display hinge into the customer display slot and fasten two screws.
	3) Connect the customer display into COM3 via the cable management slot and adjust COM3 voltage+12V in BIOS. (refer to Serial Port Pin 9 Mode Settings)
	4) Fasten the I/O cover into the right position and turn the system on the right position.

4. Cash Drawer Installation

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

Cash Drawer Pin Assignment



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

Cash Drawer Controller Register.

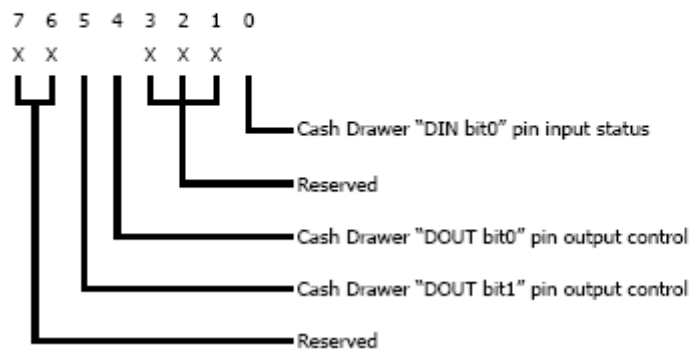
The Cash Drawer Controller use one I/O address to control the Cash Drawer.

Register Location: A22h

Attribute: Read / Write

Size: 8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Write	Write	Reserved	Reserved	Reserved	Reserved	Read



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

= 1: the Cash Drawer closed or no Cash Drawer

= 0: the Cash Drawer opened

Bit 1: Reserved

Bit 2: Reserved

Bit 3: Reserved

Bit 4: Cash Drawer "DOUT bit0" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 5: Cash Drawer "DOUT bit1" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 6: Reserved

Bit 7: Reserved

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

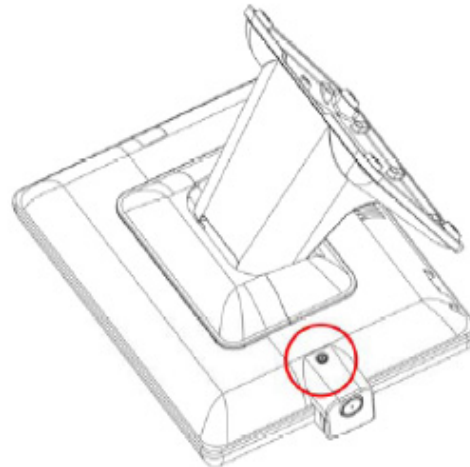
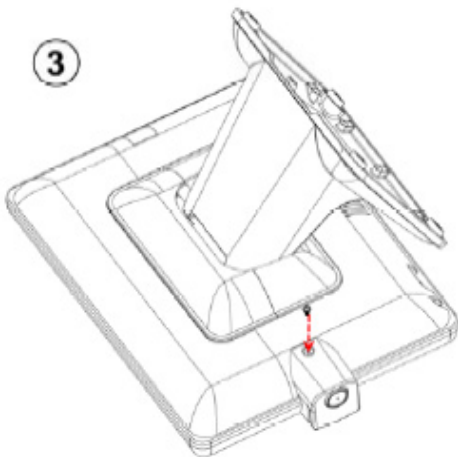
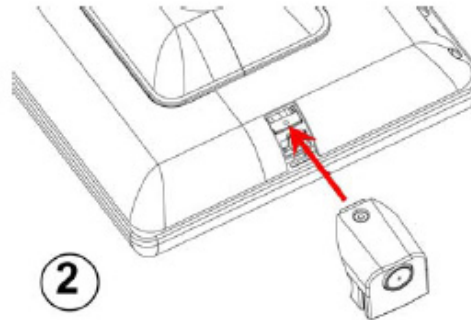
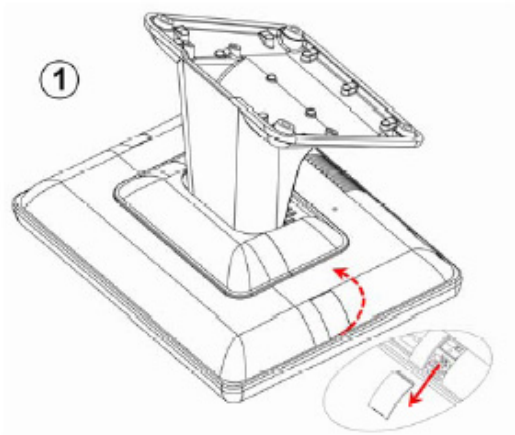
Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer
O A22 10	Opening
O A22 00	Allow to close
» Set the I/O address A22h bit2 = 1 for opening Cash Drawer by “DOUT bit0” pin controls.	
» Set the I/O address A22h bit2 = 0 for allow close Cash Drawer.	

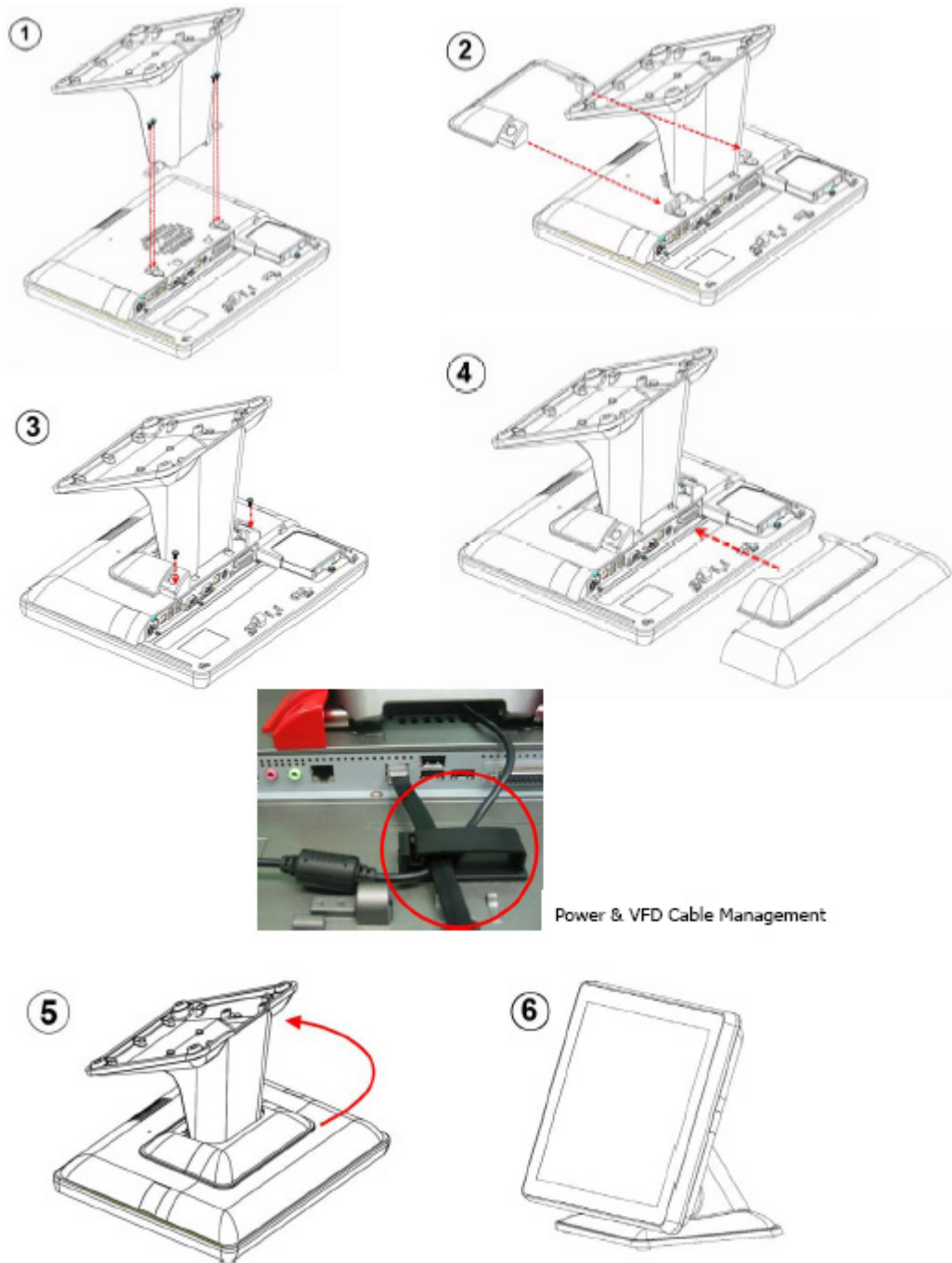
Command	Cash Drawer
I A22	Check Status
» The I/O address A22h bit0 = 1 mean the Cash Drawer is opened or not exist.	
» The I/O address A22h bit0 = 0 mean the Cash Drawer is closed.	

5. MSR Installation

- 1) Open the right side cover of system. MSR connection is supported on the right side.
- 2) Connect MSR and System connector, system connector supports PS/2 interface.
- 3) Fasten the MSR screw on system.

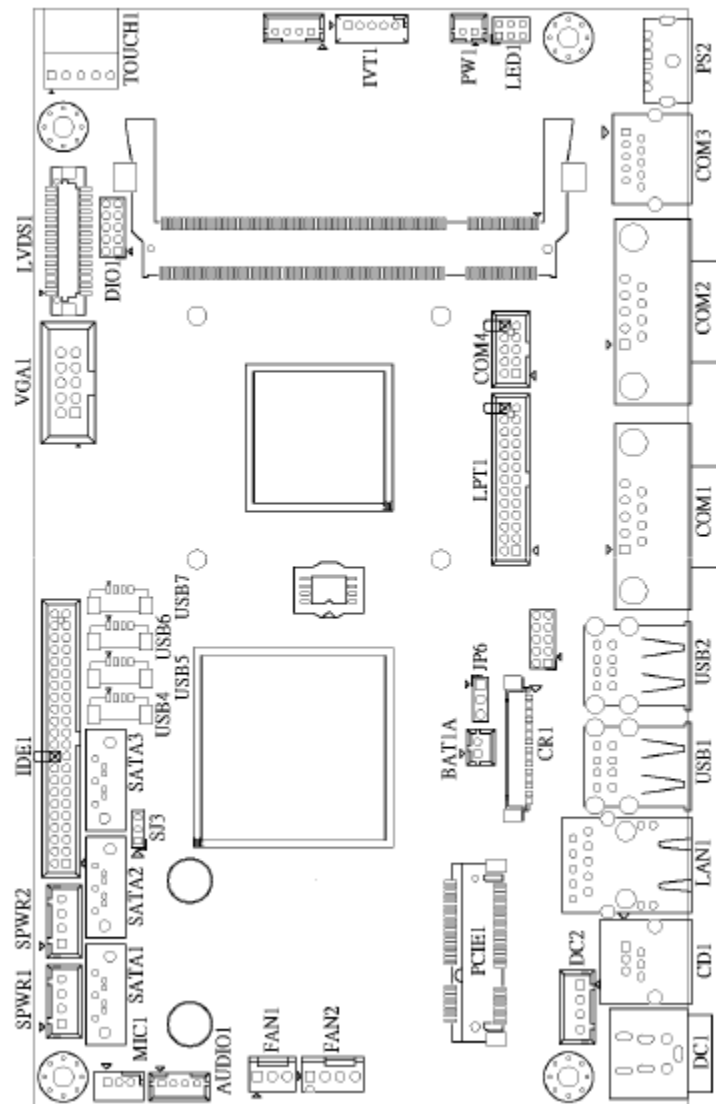


6. Metal Stand Installation



Jump Settings

1. Motherboard Layout



2. Connector & Jumper Setting

DC1	Mini Din 4P for Power Input Port
DC2	Internal Power Input Connector
CD1	RJ11 for Cash Drawer Port
LAN1	RJ45 for LAN Port
USB1, 2	USB dual stack for USB Port
USB4, 5, 6, 7	USB Connector
COM1	D-SUB 9 Pin for COM1 Port
COM2	D-SUB 9 Pin for COM1 Port
COM3	RJ48 for COM3 Port

COM4	COM4 Connector
PS2	PS/2 for Keyboard Port
SATA1	SATA 7 Pin for SATA1 Connector
SATA2	SATA 7 Pin for SATA2 Connector
SATA3	SATA 7 Pin for SATA3 Connector
SPWR1, 2	Power Output for SATA HDD
IDE1	PATA Connector
LVDS1	LCD Connector
VGA1	VGA Connector
CR1	Card Reader Connector
AUDIO1	Speaker out Connector
MIC1	MIC in Connector
LPT1	Printer Connector
TOUCH1	5W Resistive Touch Connector
PCIE1	Mini PCI-E Socket
PW1	Power Button Connector
IVT1	Inverter Connector
FAN1	CPU Fan Connector
FAN2	System Fan Connector
LED1	LED Connector
BAT1A	CMOS Battery Connector
DIO1	Digital Input / Output Connector
JP6	Clear CMOS
SJ3	SATA Power Enable for SATA3

JP6: Clear CMOS Setup

J6	Description
1-2	Normal operation
2-3	Clear CMOS

SJ3: SATA Power Enable for SATA3

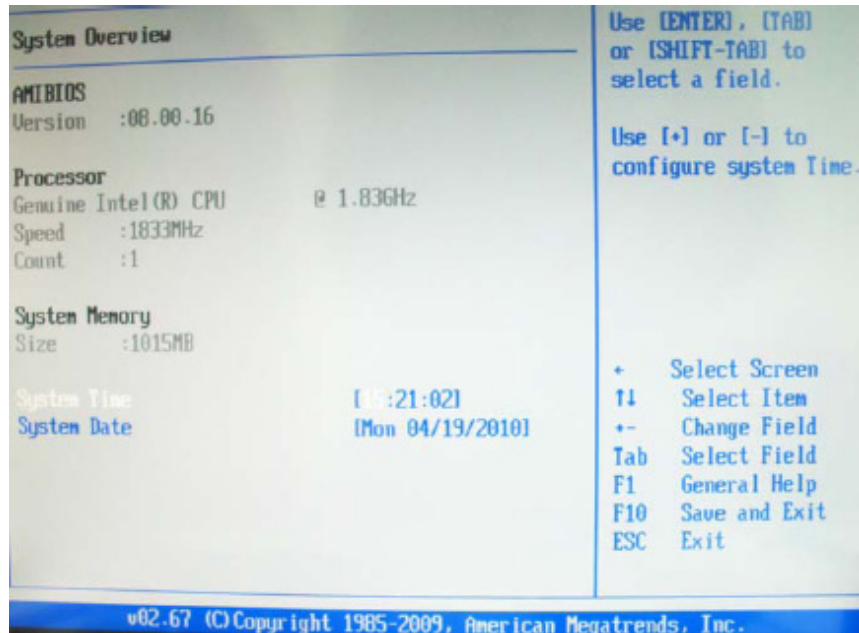
SJ3	Description
1-2	5V SATA Power Enable
2-3	Normal operation

Serial Port Pin 9 Mode Settings

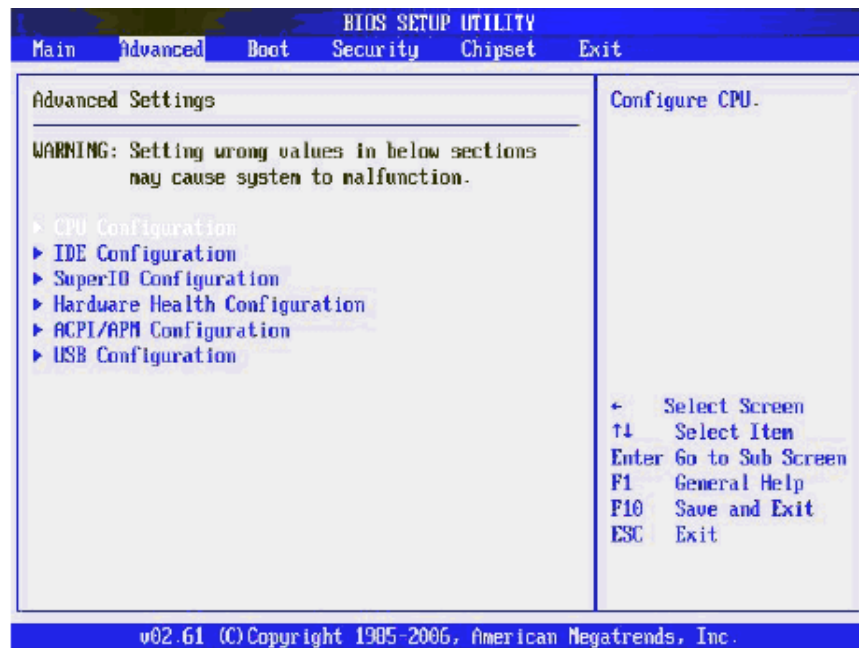
BIOS Main Menu

When the BIOS Main Menu is displayed, the following items can be selected. Use the arrow keys to select items and the enter key to accept and enter the sub-menu.

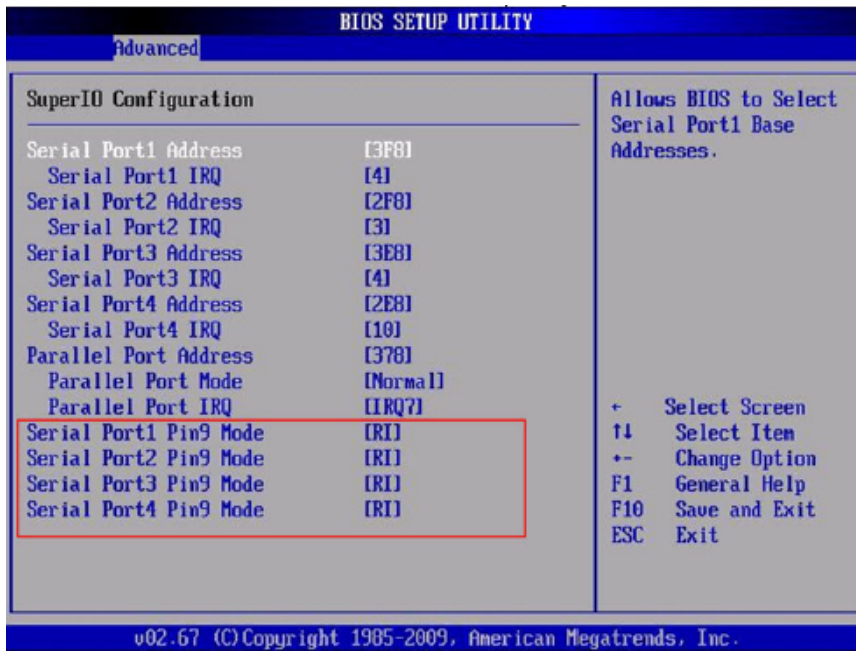
Enter System Overview



Advanced Settings. Use this menu for set up super I/O configuration.



Select Super I/O Configuration. Use this menu for set up super I/O configuration.



Serial Port 1-4 Pin9 Mode. Enter into serial port 1-4 Pin9 Mode and set up the options then select the serial port 1 Pin9 mode.



Save and Exit

Appendix

Drivers Installation

The shipping package includes a Driver CD. You can find every individual driver and utility that enables you to install the drivers in the Driver CD. Please insert the Driver CD into the drive and double click on the “index.htm” to pick up the models. You can refer to the drivers installation guide for each driver in the “Driver/Manual List”.

Specification

Mechanical	Dimensions Weight	14.57" x 11.3" x 2.17" (W x H x D) 9.92 lbs
Mainboards	Intel® Atom™ Processor D410 (Single Core) 1.66GHz with L2 Cache 512KB	
System Management	Desktop Management Interface (DMI) Preboot Execution Environment (PXE) Wake on LAN (WoL) Advanced Configuration and Power Interface (ACPI)	
Memory	1 x SO-DIMM DDRII 667, up to 2GB	
OS Support	Windows 7, Windows POSReady 2009, WEPOS, Windows XP Pro for Embedded, Fedora(Linux)	
Mess Storage	HDD 1 x SATA 2.5" HDD	
Temperature	Operating Storage	0 to 40 deg C -20 to 60 deg C
I/O Ports	External DC Input Cash Drawer Network (LAN) USB Port Serial Port COM1/2 COM3 PS/2 Port VGA Port Internal Card Reader (and Dallas Key) Audio Bus Expansion	1 x Mini Din 4P (DC 12V only) 1 x RJ-11 (Power Pin 12V) 1 x Gigabit Ethernet by RJ-45 4 x USB 2.0 3 x RS-232 DB-9, RS-232, Pin9 w/RI/5V/12V. Selectable by BIOS RJ-48 for VFD, RS-232, Pin10 w/RI/5V/12V. Selectable by BIOS 1 x PS/2 connector for Keyboard 1 x VGA HD15 Port Internal Pin header for Card Reader (and Dallas Key) AC 97 2.0 compliant, 2W Speaker x 2 1 x Mini-PCI-E Slot
LCD Touch Monitor	TFT LCD Brightness Resolution Touch Screen	15" 250 nits 1024 x 768 True Flat 5-Wire Resistive True Flat PCT (optional)
Power Supply	External adapter, DC Model: 80 Watts, Voltage: +12VDC 6.6A max.	
Certifications	CE, FCC, Class-A, RoHS, WEEE	
Options	Magnetic stripe reader Second display Customer display MSR (and Dallas Key)	MSR 3-track PS/2 I/F 7-inch LCD monitor VFD 2x20 PS/2

Limited Warranty Policy

All SB-9090 feature a three-year-limited warranty with free change in the first year from the date of purchase. If product is determined to be defective, we will repair or replace the product with refurbished or remanufactured parts or components during the warranty period.

This warranty is valid only for the first consumer purchaser.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use or modifications of, or to any part of the product.

This warranty does not cover damage due to improper operation or maintenance (see manual), connection of improper voltage supply, or attempted repair by anyone other than a facility authorized by us to service the product. This warranty does not cover irregular pixel performance on the screen, and damages result due to delivery or improper shipping. This warranty does not cover product sold AS IS or WITH ALL FAULTS, and failure to follow instructions supplied with the product.

This warranty is invalid if the factory-applied serial number has been altered or removed for the product and broken security seal.

The customer must have model number, serial number, and original proof of purchase in the form of a bill of sales or receipt invoice, which is evidence that the unit is within the warranty period, must be presented to obtain warranty service. Our helpful technical support and customer service staff will attempt to correct any minor issues that might be causing the product failure. If the technical service or customer representative is unable to fix the issue by phone, a return material authorization (RMA) number will be issued. Along with the proof of purchase and the RMA number, the customer can ship the defective unit back to us. Once the defective unit is received, and tested, we will ship a replacement unit back to customer. It is the responsibility of the customer to properly package the monitor with plugs, power supply, etc. We shall not be liable for the loss of the use of the product, inconvenience, loss or any other damages, direct or consequential, arising out of the use of, inability to use, or any claim against the customer by any other party. Some regions do not allow exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

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