User Manual

November 2011 Revision 1.2

TEOS
Hardware System

TEOS 1218/1216D TEOS 1518/1516D
TEOS 1718/1716D TEOS 1918/1916D

Manual Version 1.2

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrial 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.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart,stand,or table.The product may fall, causing serious damage to the product.
6. 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.
7. 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.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. 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.

CE MARK

CE This device complies with the requirements of the EEC directive 2004/08/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”.

FCC

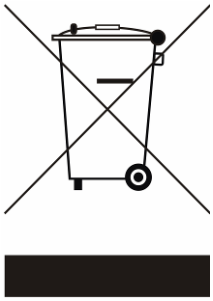
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

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.

Table of Contents

Revision History

Revision Number	Description	Revision Date
1.0	Initial release	2007 December
1.1	● Remove B78 Motherboard ● Add Motherboard B98 (Drivers, Photos, Jumper Settings, BIOS, Specs) ● Line-in / Line-Out change to MIC-In / Line-Out ● I/O and Rear Cover photos changed. ● Updated specification details	2009 May
1.2	● Updated driver information	2011 November

1. Item Checklist

Take the system unit out of the carton. Remove the unit from the carton by holding it by the foam inserts:

a. Com port Cable x 2

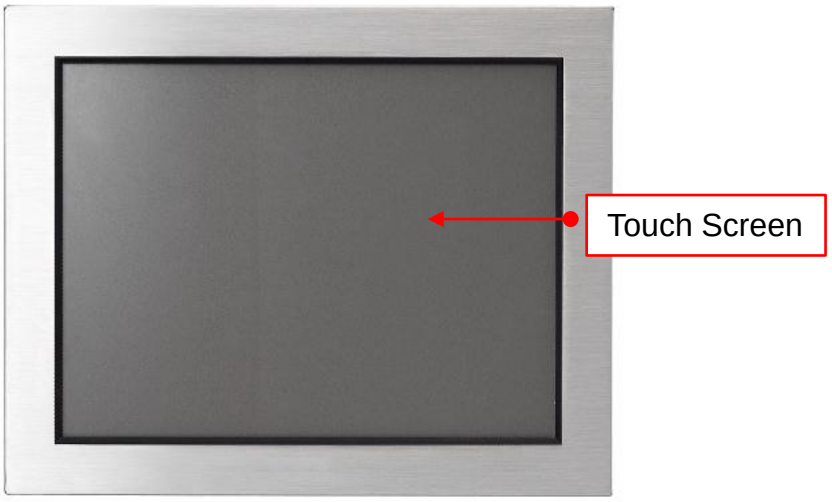
b. Power Cable

c. Power Adapter

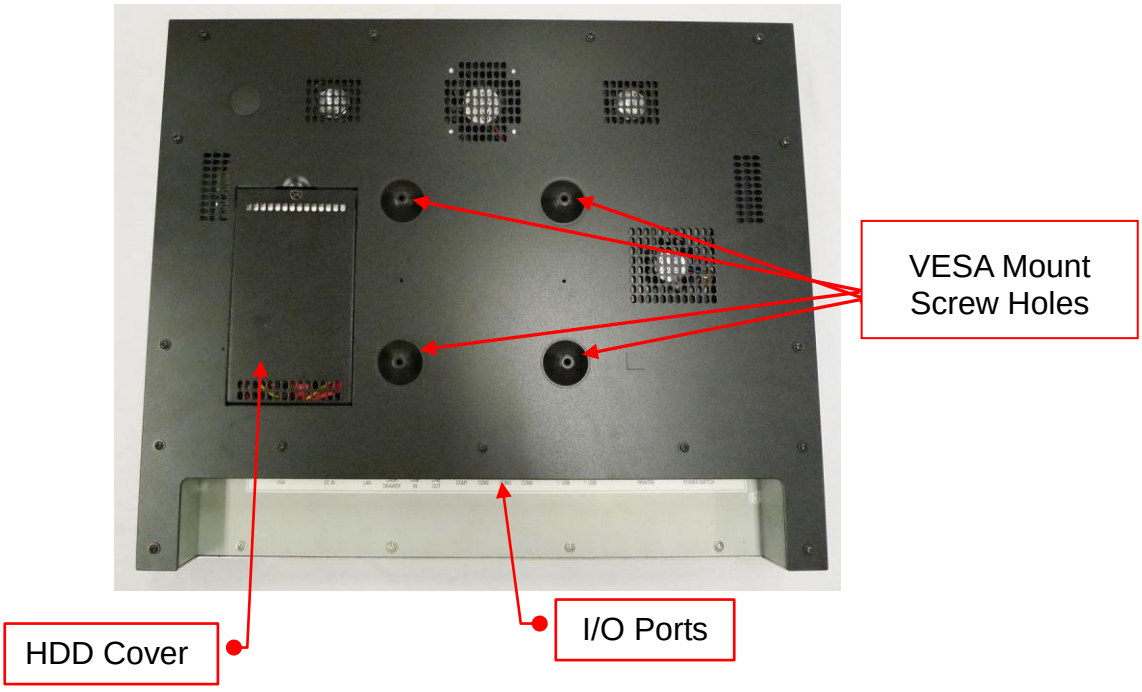
d. System

2. System View

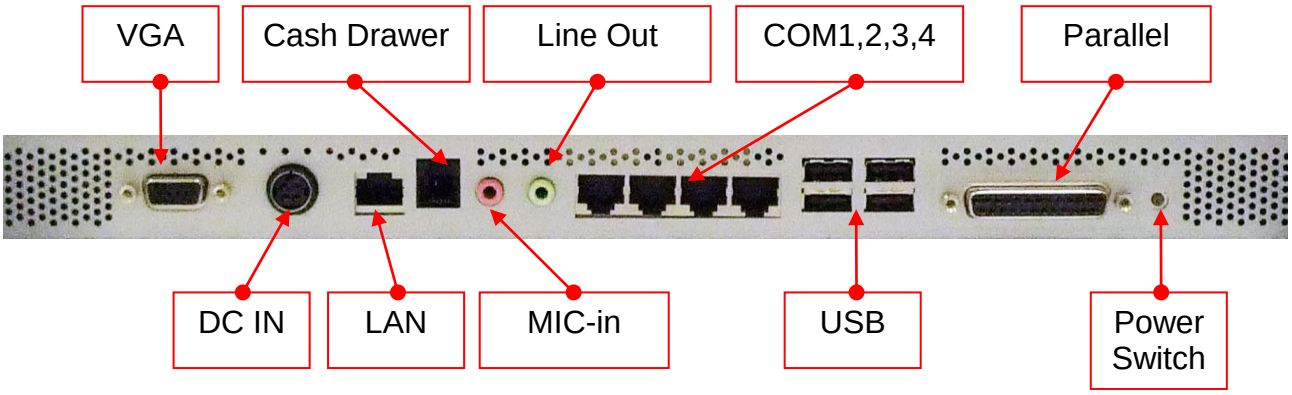
2.1 Front View



2.2 Rear View

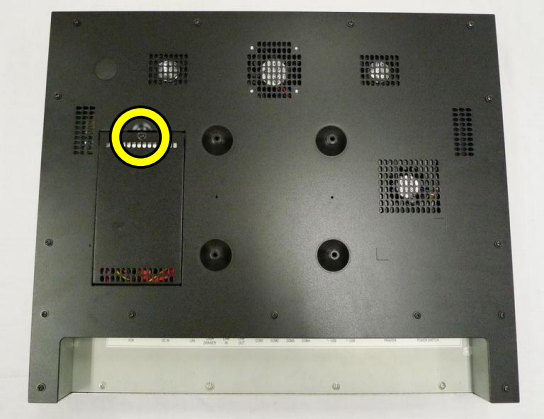


2.3 I/O View

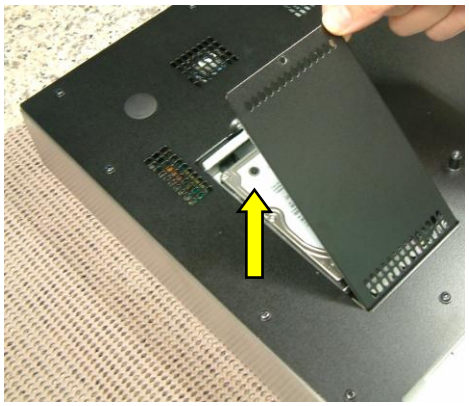

VGA
Cash Drawer
Line Out
COM1,2,3,4
Parallel
DC IN
LAN
MIC-in
USB
Power Switch

3. System Disassembly

3.1 Replacing the Slimline HDD



a. Loosen the screw (1) on the HDD Door

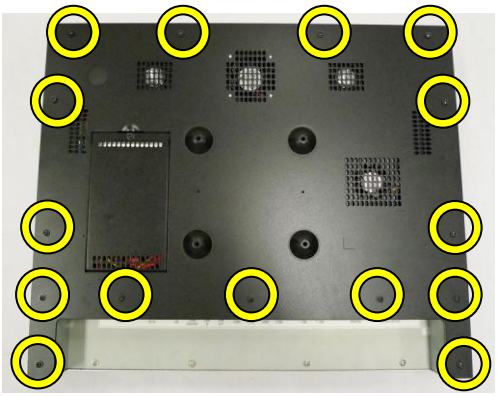


b. Remove the HDD Door

c. Disconnect the Cable (1) to replace the HDD

3.2 Opening the Rear Cover

To replace the heatsink / fan and CPU, please first follow the steps in chapter 4.1.

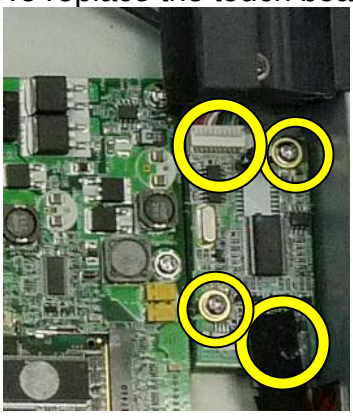


a. Loosen the screw (15) on the rear cover

b. Remove the rear cover

3.3 Replacing the Touch Board

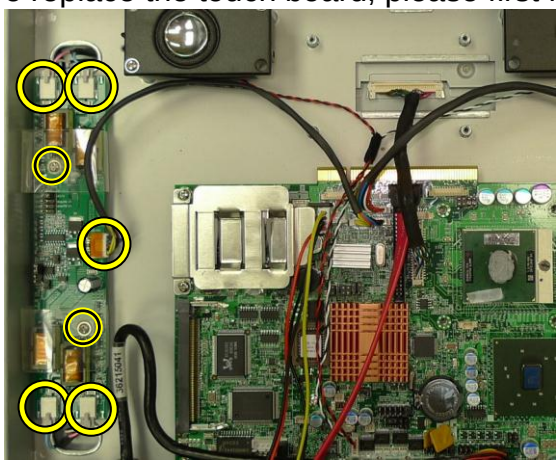
To replace the touch board, please first follow the steps in chapter 4.1 and 4.2.



a. Remove the screws (2) and disconnect Cables (2) to replace the touch board.

3.4 Replacing the Inverter Board

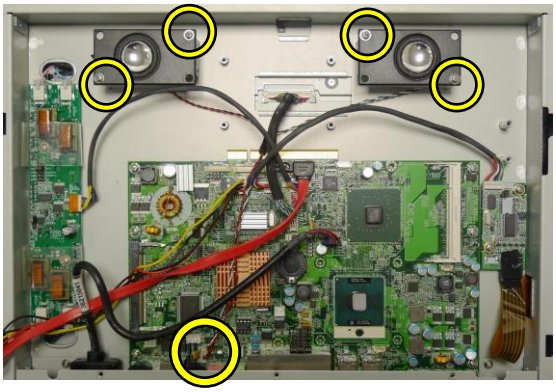
To replace the touch board, please first follow the steps in chapter 4.1 and 4.2.



a. Remove the screws (2) and disconnect cables (5) to replace the Inverter board.

3.5 Replacing the Speakers

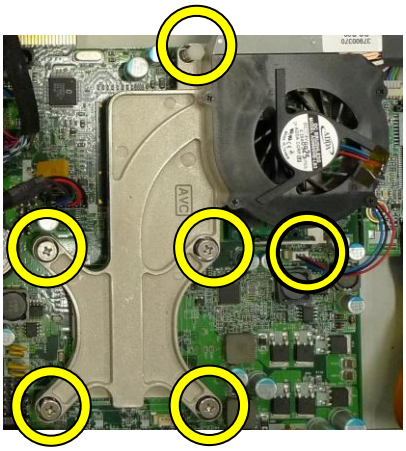
To replace the speakers, please first follow the steps in chapter 4.1 and 4.2.



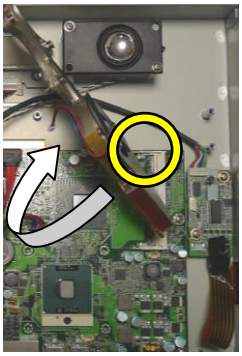
a. Remove screws (4) and disconnect cable (1) to replace speakers (2)

3.6 Replacing the Motherboard

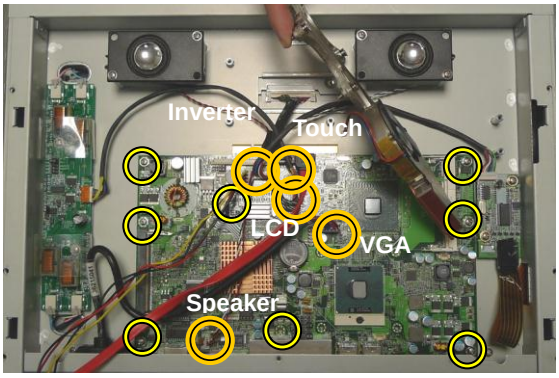
To replace the Motherboard, please follow the steps in chapter 4.1 and 4.2 first.



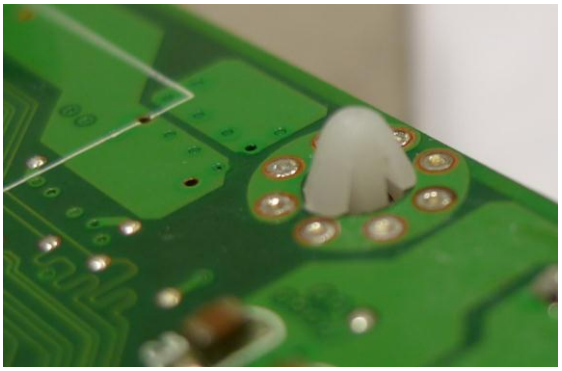
a. Loose the Screws (4) and the spring (1) and disconnect the FAN cable (1).
Note: FAN can not be removed unless take off the Motherboard.



b. To slightly revolve the spring connected the FAN and Motherboard to show the screw under the FAN.



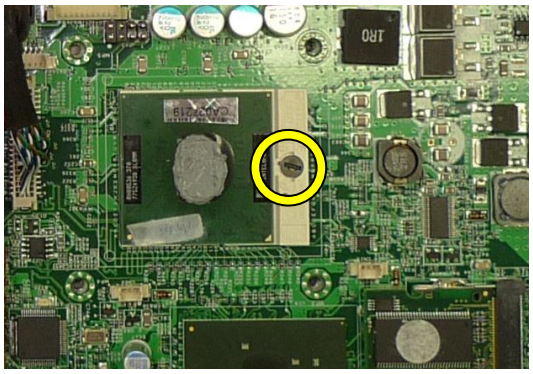
c. Remove the screws (8) and disconnect the cables (5)-Inverter, Touch, LCD Interface, Speaker and VGA cables.



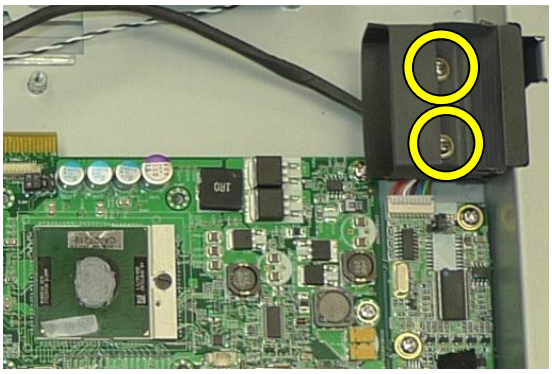
d. Turn over to the back of Motherboard, pinch and push the spring head to detach the FAN from the Motherbaord.

3.7 Replacing Heatsink, Fan and CPU

To replace the Heatsink, FAN and CPU, please first follow the steps in chapter 4.1, 4.2 and 4.7 to remove the FAN then replace the CPU secondly.



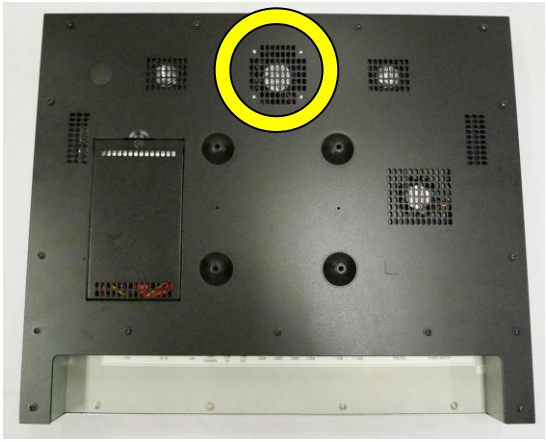
e. Turn the socket lock screw 180 degrees to unlock it and remove the CPU.



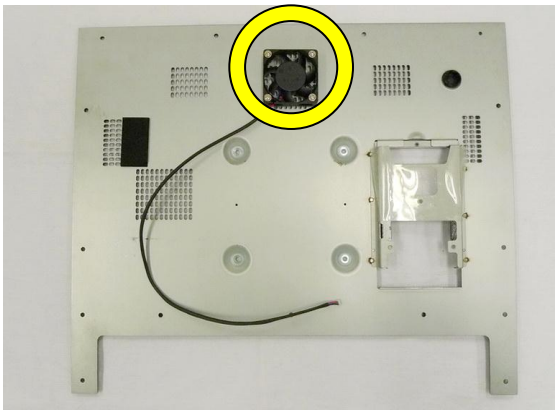
f. Remove the screws (2) to remove the fan tunnel.

3.8 To replace the Second Fan

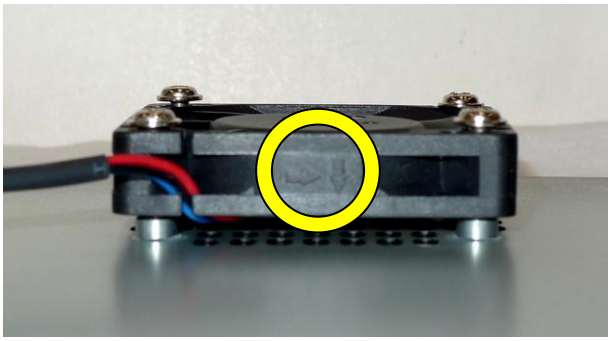
To replace the Second Fan, please first follow the steps in chapter 4.1 and Chapter 4.2 to remove the rear cover.



a. Second Fan location



b. Turn over the rear cover and loose the screws (4)



c. Ensure the Second Fan is installed as right position as the arrow ⇨ and ⇩ marked at round side of Second Fan Module is stored at right direction as picture shows.

4. Specification

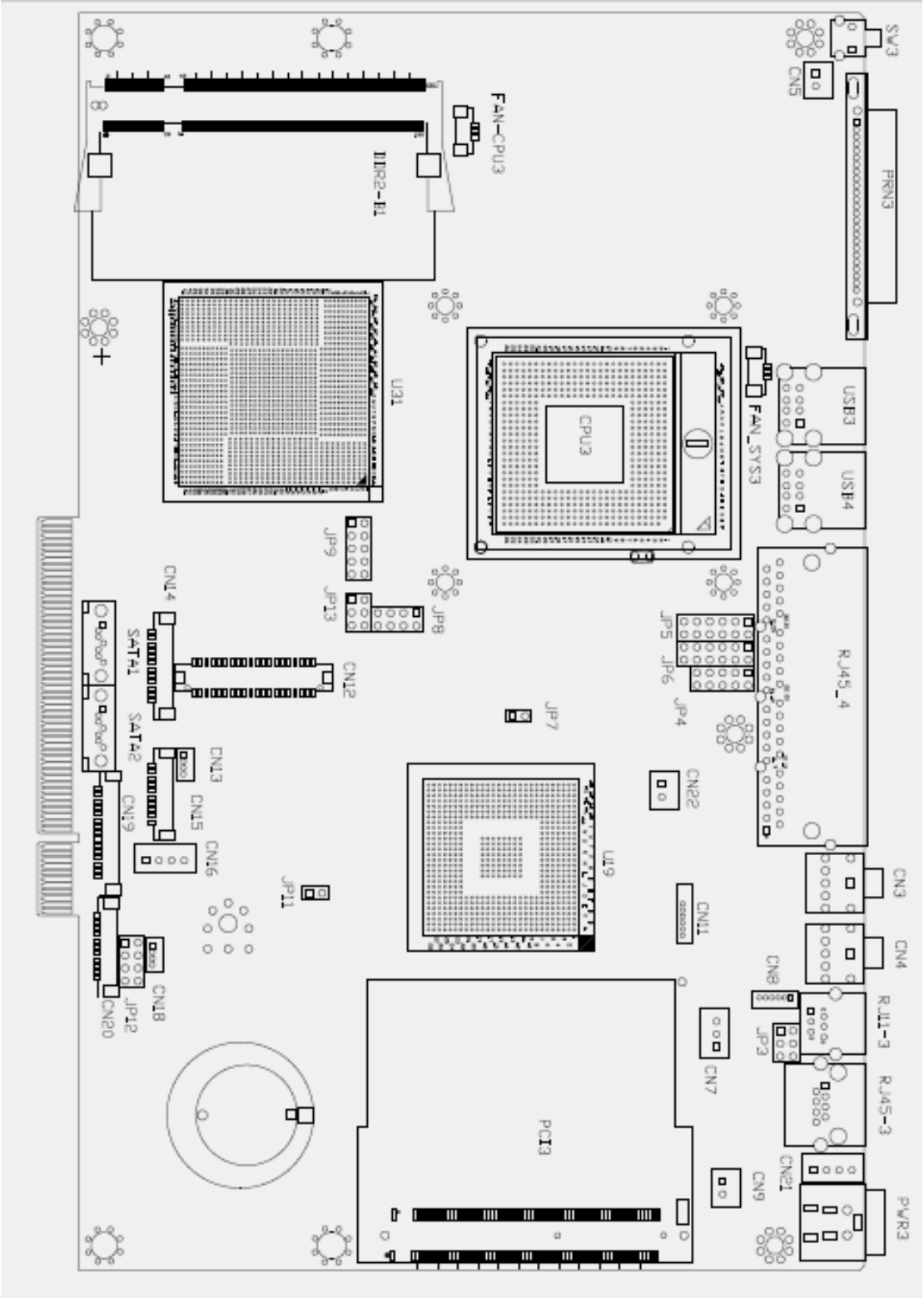
Model Name	TEOS 1218/1216D	TEOS 1518/1516D	TEOS 1718/1716D	TEOS 1918/1916D
Motherboard	**B98**			
CPU Supports	Celeron ®M 1.86GHz (440); Core ™2 Duo 1.66GHz (T5500)			
Chipset	Intel 945GME+ ICH7M			
System Memory	2 x DDRII, 667 MHz, SO-DIMM slot, up to 4 GB			
Graphic Memory	Share system memory max 224MB			
LCD / Touch Panel				
LCD Size	12" TFT LCD	15" TFT LCD	17" TFT LCD	19" TFT LCD
Brightness	370nits	350nits	300nits	300nits
Maximal Resolution	800 x 600	1024 x 768	1280 x 1024	
Touch Screen Type	Resistive type (COM5) / SAW touch (COM5) (option)			
Storage				
HDD	2.5" Slim HDD bay, SATA HDD			
Flash Memory	CF Card kit (instead of HDD) SSD Drive (option)			
Expansion				
mini-PCI Slot	1, supports 802.11 a/b/g WLAN card			
mini-PCI express	1 slot			
External I / O Ports				
USB 2.0	4 x USB Type A			
Serial / COM	RJ-45 (COM1 standard RS-232; COM2 RS-232 / 422 / 485 selectable by jumper; COM3 & COM4 pin 9 with 5V or 12V power by jumper)			
Parallel	1 x D-sub 25F			
LAN (10 / 100/1000)	1 x RJ-45			
Cash Drawer	1 x RJ-11 (12V or 19V)			
DC Jack	1 x Latch Type			
Audio Jack	1 x MIC-in, 1 x Line-out			
2nd VGA	1 x DB 15F			
Internal Interface				
USB 2.0	2			

Model Name	TEOS 1218/1216D	TEOS 1518/1516D	TEOS 1718/1716D	TEOS 1918/1916D
Audio				
Speaker	2 x 3W Speakers			
Power				
Power Adapter	DC 19V / 90W			
Environment				
EMC & Safety	FCC Class A, CE, LVD			
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)			
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)			
Operating Humidity	5% - 95% RH non-condensing			
Storage Humidity	5% - 95% RH non-condensing			
Dust & Water Proof	NEMA 4 / IP 65 (front)			
Dimension (W x D x H)	331 x 265 x 55 mm 13" x 10.5" x 2.2"	386 x 308 x 60 mm 15.2"x 12.1"x 2.4"	411 x 345 x 60 mm 16.2" x 13.6" x 2.4"	449 x 374 x 60 mm 17.7" x 14.7" x 2.4"
Weight	N.W. 4.7kgs / 10.4 lbs	N.W. 5.8 kgs / 12.8 lbs	N.W. 7.6 kgs / 16.7 lbs	N.W. 9 kgs / 19.8 lbs
Mounting	100mm x 100mm Standard VESA / Panel Mount			
OS Support	Windows Vista for B98, Windows XP, WEPOS, XP Embedded, XP professional for Embedded, WIN 2000 professional Embedded, Linux			

- This specification is subject to change without prior notice.

5. Jumper Settings

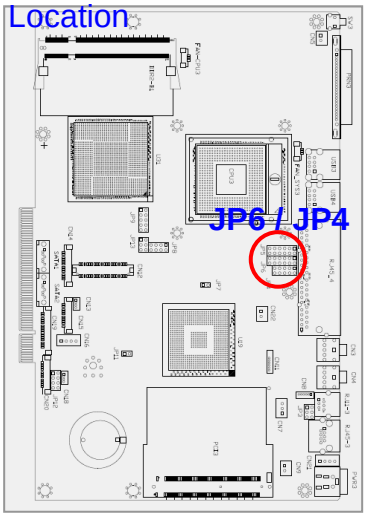
5.1 B98 V1.0 Motherboard layout



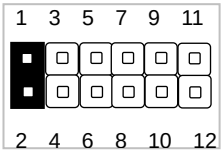
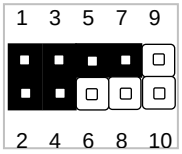
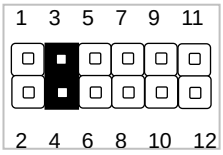
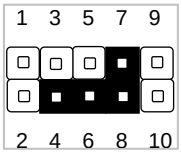
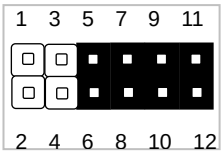
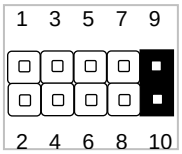
5.2 Connectors

Connector	Purpose
BAT3	CMOS Battery Base (Use CR2023)
CN3	Audio Line Out
CN4	MIC In
CN5	Internal Power On Switch Connector
CN8	Speaker & MIC Connector
CN9	Internal LAN LED
CN11	CD-IN / Line-In Connector
CN12	LCD Interface Connector
CN13	IrDA Connector
CN14	Inverter Connector
CN15	COM5 for Touch
CN16	Power Connector For HDD
CN18	USB5
CN19	Card Reader Connector
CN20	FT Status Interface Connector
CN21	Internal Input Power Connector
CN22	Hardware Reset
DDR2_A1	DDR2 SO-DIMM
DDR2_B1	DDR2 SO-DIMM
FAN_CPU3	CPU FAN Connector
FAN_SYS3	System FAN Connector
MINI_PCIE3	Mini PCI-E Socket
PCI3	Mini PCI Socket
PRN3	Parallel Port
PWR3	+19V Power Adaptor
RJ11_3	Cash Drawer Connector
RJ45_3	LAN (On Board)
RJ45_4	COM1, COM2, COM3, COM4
SATA1	SATA Connector
SATA2	SATA Connector
SKT1	SPI ROM
SW3	Power On Button
USB3	USB1, USB2
USB4	USB3, USB4
JP9	VGA Port
JP10	2nd Display Power

5.3 Jumper Setting

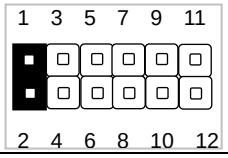
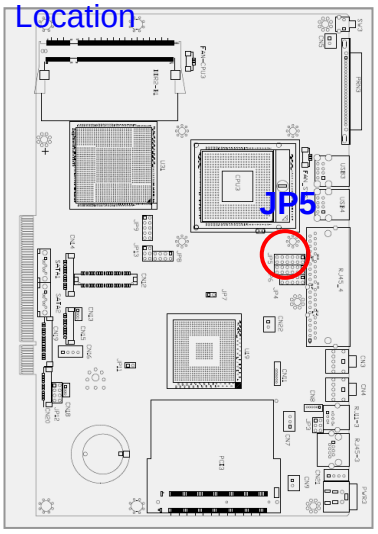
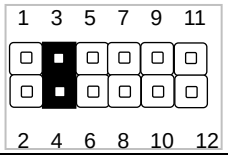
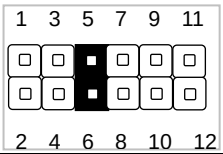
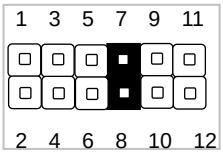
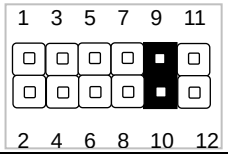
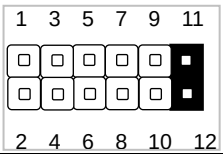


COM2 RS232/485/422 Setting

Function	JP6 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)	JP4 (1-2) (3-4) (4-6) (5-7) (7-8) (9-10)
◎RS232		
RS485		
RS422		

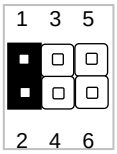
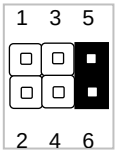
◎ = Default

COM3 & COM4 Power Setting

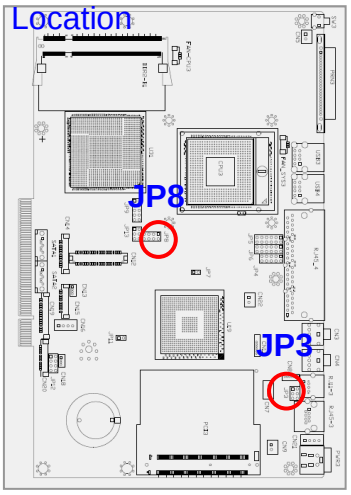
Function		JP5 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)	Location
COM3 Pin9 (DB9)	◎RI		
	+5V		
	+12V		
COM4 Pin9 (DB9)	◎RI		
	+5V		
	+12V		

◎ = Default

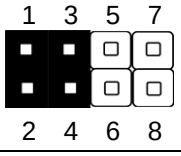
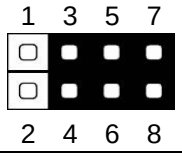
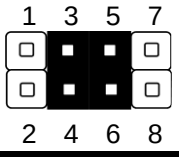
Cash Drawer Power Setting

Function	JP3 (1-2) (3-4) 5-6)
+12V	
◎+19V	

◎ = Default

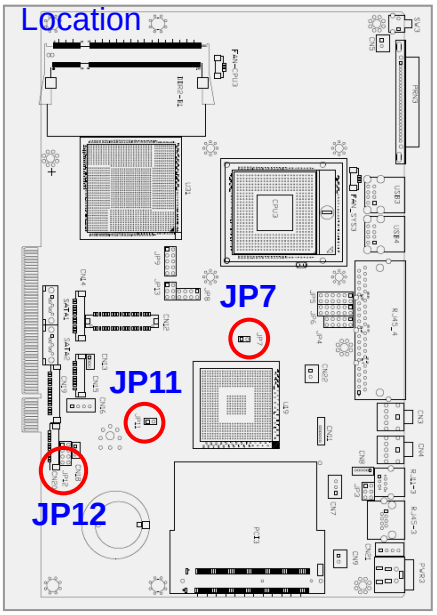


LCD ID Setting

Model	Resolution	LVDS		JP8 (1-2) (3-4) (5-6) (7-8)
		Bits	Channel	
TEOS 1218/ 1218D	800 x 600	18	Single	
TEOS 1516/ 1518D	1024 x 768	24	Single	
TEOS 1718/ 1716D TEOS 1918/ 1916D	1280 x 1024	24	Dual	

Power Mode Setting

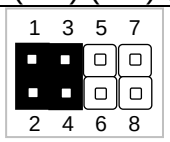
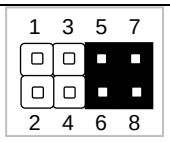
Function	JP11 (1-2)
◎ATX Power	
AT Power	



CMOS Operation Mode

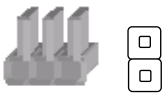
Function	JP7 (1-2)
◎CMOS Normal	
CMOS Reset	

System Indicator Function

Function	JP12 (1-2) (3-4) (5-6) (7-8)
◎Disable	
Enable	

◎ = Default

Note:


OPEN


SHORT

6. BIOS Settings

6.1 BIOS Setup Utility

The BIOS setup defines how the system is configured. You need to run this program the first time you configure this product. You may need to run it again if you change the configuration.
You need to connect a PC keyboard to the keyboard connector to run the BIOS setup utility.

6.2 Starting the BIOS Setup

Turn on or reboot this product.
Press the DEL key immediately after the product is turned on, or press the DEL key when the following message is displayed during POST (the Power on Self-Test)

Press DEL to enter SETUP.

The main menu of the BIOS setup is displayed.
If the supervisor password is set, you must enter it here.

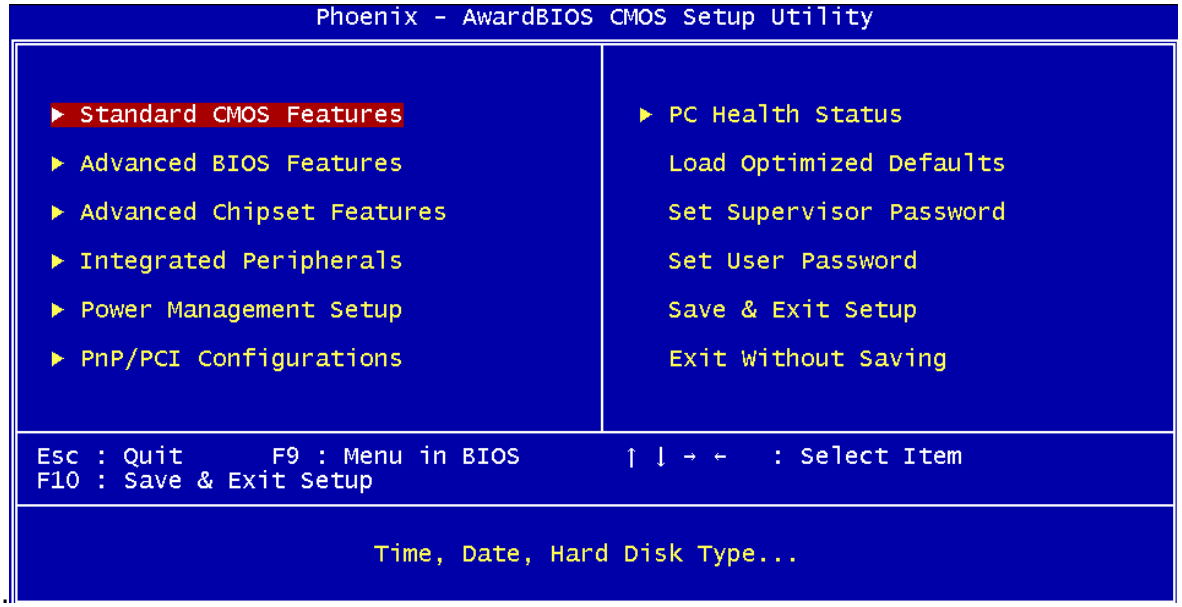
6.3 When a Problem Occurs

If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following

Load Optimized Defaults

6.4 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.
Note: The BIOS setup menus shown in this section are for reference only and may not exactly match the items of your BIOS version.



Standard CMOS Features
Use this menu for basic system configuration.

Advanced BIOS Features
Use this menu to set the Advanced Features available on the system.

Advanced Chipset Features
Use this menu to change the values in the chipset registers and optimize the system's performance.

Integrated Peripherals
Use this menu to specify your settings for integrated peripherals.

Power Management setup
Use this menu to specify your settings for power management.

PnP/PCI Configurations
This entry appears if your system supports Plug and Play and PCI Configuration.

PC health status
Displays CPU, System Temperature, Fan Speed, and System Voltages Value.

Load Optimized Defaults
Use this menu to load the BIOS default values, i.e., factory settings for optimal performance system operations. While Award has designed the custom BIOS to maximize performance, the factory has the option to change these defaults to meet their needs.

Set Supervisor Password
Enables you to change, set, or disable the supervisor or user password.

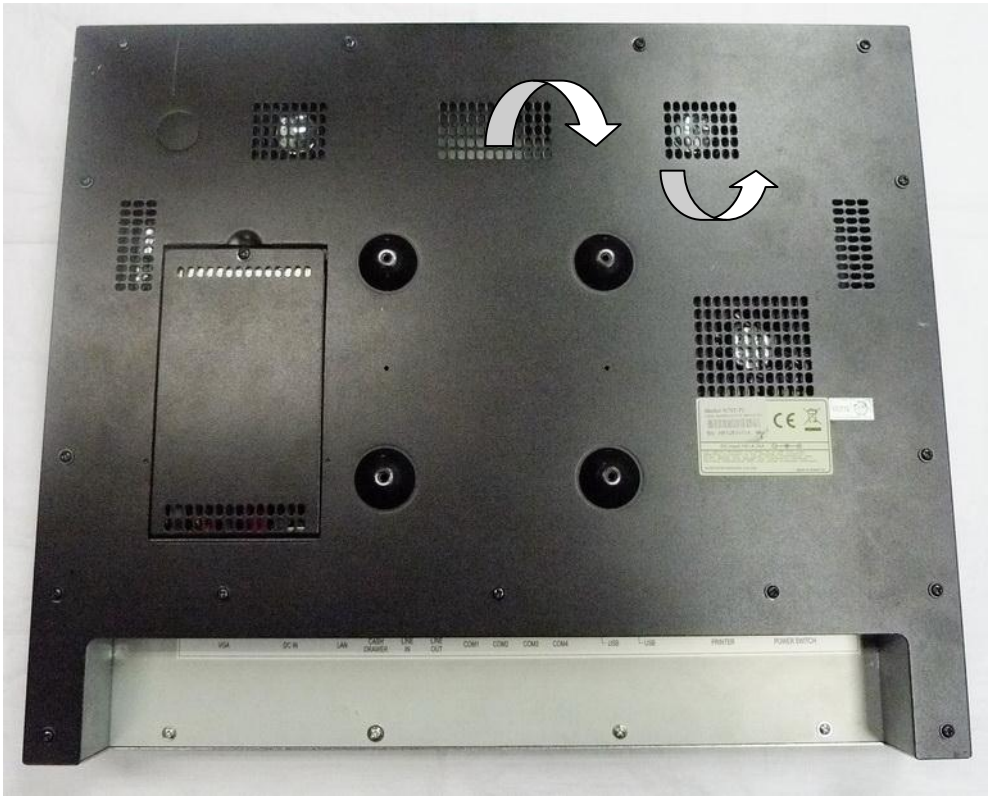
Set Password
Change, set, or disable the password. It allows you to limit access to the system and to the setup, or just to the setup.

Save & exit setup
Save CMOS value changes to CMOS and exits setup.

Exit without saving
Ignores all CMOS value changes and exits setup.

7. Airflow Requirements

Do not block the air vents on the CPU. These vents are necessary for cooling purposes.



Do not place the CPU in an enclosed area where sufficient ventilation is not available. Leave at least 150 mm (6 in.) of clearance on the sides where air vents are located.

Appendix: Drivers Installation

To download the the most recent drivers and utilities, and obtain advice regarding the installation of your
equipment, please visit the AURES Technical Support Website:
www.aures-support.fr (French)
www.aures-support.fr/UK (English)
www.aures-support.fr/GE (German)