User's Manual

AL-9700 Series AL-9705 15" Dual-Core Media-Enhanced POS system

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Safety and Warranty

1. Read these safety instructions carefully.

2. Keep this user's manual for later reference.

3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.

4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.

5. Keep this equipment away from humidity.

6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.

7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.

8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.

9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.

10. All cautions and warnings on the equipment should be noted.

11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

12. Never pour any liquid into an opening. This could cause fire or electrical shock.

13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.

14. If any of the following situations arises, get the equipment checked by service personnel:

- a. The power cord or plug is damaged.
- b. Liquid has penetrated into the equipment.
- c. The equipment has been exposed to moisture.
- d. The equipment does not work well, or you cannot get it to work according to the user's manual.
- e. The equipment has been dropped and damaged.

f. The equipment has obvious signs of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4°F) OR A BOVE 60°C (140°F). IT MAY DAMAGE THE EQUIPMENT.

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Chapter 1

Introduction

AL-9705 Introduction

Combining POS application with HD level media performance, AL-9705 leads the POS terminal development into a new era. With the ATI HD3200 graphic IC integrated and optional side-port memory support, it becomes possible for a POS terminal to be more than a POS—it can also serve as a digital signage player. Besides the excellent media enhanced features, AL-9705 is equally strong in POS application features, such as dual-core CPU support, 2 x HDD with RAID function, abundant I/O access, and easy-maintenance mechanical structure. Though as powerful as it is, AL-9705 is supplied with a 150W power adaptor only, reducing the power consumption efficiently as a little tribute to our planet.

Main Features:

- Multiple display with independent audio stream support
- Strong graphic performance, supporting mpeg2/4, H.264…etc
- 2 x HDD trays available with RAID function support
- Integrated OSD and monitor power indicator for better display monitoring
- Easy maintenance for HDD, RAM, and the M/B box
- Easy access for jumper setting adjustment



AL-9705 (Black & Silver v.s. Silver & White)

A Quick Tour for AL-9705

Before you start, take a moment to become familiar with AL-9705.



AL-9705 Dimension









Rear I/O Panel



I/O Port	Connector Type	Description
-# »	Earphone connector	Connect the speakers to this port
Ŷ	USB type A connector	Standard USB connector for external device
	DC Power connector	Connect the power supply to this port
²(0 0) ³(0 0) ⁴(0 0)	VFD / RJ45 connector w/ LED Indicators (5V/12V)	This RJ45 port can be used to attach a VFD customer display or serve as an additional serial port (switching cable provided). (Green LED for 5V/ Orange LED for 12V/ None for RI.)
	RJ11 connector	Cash drawer connector, 12V / 24V selectable by jumper (JP7)
0000000	PS2 connector	Connect the keyboard or mouse to this port
⁵ [0]0] ⁶ [0]0]	D-SUB 9 connector	The serial ports COM5/COM6 can be used to connect devices such as a printer or a fax/modem.
	10-pin RJ45 10P10C Connector	The RJ45 connector is for connecting LPT-type KeyPro solution
蛊	RJ45 connector	Connect AL-9705 to the Ethernet
0	D-Sub 15 Pin Connector	The VGA port is used for connecting LCD or CRT monitors or pole-type 2 nd LCD customer displays.
D	20 Pin Display Port Connector (Male)	The display port can be used to connect HD level resolution displays (cable adaptors for DP to VGA/DVI/HDMI are optionally provided.)
DC12	12V DC-out connector	This DC-out port can sustain the power of the monitor or any other devices which need 12V DC power input.

Packing List

- AL-9705 Main System x 1
- 150W Power Adaptor x 1
- Driver & Manual CD x 1
- AC Power Cord x 1
- 2.5" HDD Tray x 1
- COM port switching cable (RJ45 to

D-SUB 9 pin) x 3

Optional:

- 2nd 2.5" HDD Tray
- Pole-type 12" /15" LCD Customer Display
- MCR / IC Card Reader / Finger Print or RFID Selectable 3-in-1 Module
- I-Button (by factory order)
- WiFi Wireless Module
- DP Cable Adaptors: DP to VGA / DVI / HDMI Available

Chapter 2

Hardware Installation and Upgrading



Do not remove the rear cover until you have verified that no power is supplied to the system. Power must be switched off and the power cord must be unplugged. Every time you service the system, you should be aware of this.

2 x 2.5" Hard Disk Drive Installation

- 1. Turn off power and remove power cord from the system
- 2. Unlock the HDD tray cover in front and reveal the HDD trays (One tray as default).



3. Push the tray button and pull out the tray module to replace the HDD.



- 4. Restore the HDD tray to the system.
- 5. Lock the HDD tray cover.
- 6. Connect the power cord to the system.

Pole-Type VFD / 2nd LCD Display Installation

1. Remove the lid on the cable cover

2. Fix the pole stand with screws and place the pole-type customer display / 2nd LCD display to the stand





3. Connect the RJ45 or RS-232 (D-Sub 9) cable to the system for VFD.







Memory (DDRII RAM) / CPU Installation

1. Unscrew and remove the top cover



- 2. Install the DDRII RAM or CPU you require.
- 3. Restore the top cover.

Jumper Setting Adjustment



3. Restore the maintenance door.

Note:

COM2(JP1)COM3(JP3)COM4(JP5)

POWER & RI	JUMP SELECT		
MODE	SHORT		
+5V	1-2		
RI	★ 3-4		
+12V	5-6		

COM2(JP2)COM3(JP4)COM4(JP6)

MODE	JUMP SELECT		
	SHORT		
RS232	*	1-3,2-4	
+VFD		1-2,3-5,4-6	

CASH DRAWER Voltage(JP7)			
MODE	JUMP SELECT		
	SHORT		
+12V	★ 1-2		

2-4

+24V

MCR Parameter Modification

This option is for users who need to customize the MCR parameters for a particular task.

The MCR parameters can be modified by using the supplied utility program. The utility can be found on the CD that came with your system in the "\Utilities\USB MSR\Software" folder. The program name is HID_MSR_PSW00003.exe.

And the utility user manual can be found in "\Utilities\USB MSR\Documents\ HidMsrUserManual_TM970001.pdf."

i-Button Installation

The i-Button applied in AL-9700 is a COM-interfaced device which simulates K/B input as default application. The testing program "iButtonTester" may be retrieved from our technical website.

The command set is shown as follows.

Command	Interpret
ESC w	Read iButton Key

Note:

1. Put the key to i-button reader to generate an interrupt and send the key data to the terminal.

2. Remove the key from i-button reader to generate an interrupt and send '0 0 0 0 0 0' to the terminal.

Cash Drawer Installation

Before connecting the cash drawer to the **AL-9705**, please make sure the drive voltage and cable pin assignment of the cash drawer matches the definition of the cash drawer port of **AL-9705**. Please refer to the mother board manual GPIO part for more information.

Plug cash drawer cable into the cash drawer port.



Note: If the cash drawer cannot be detected by the system, please refer to troubleshooting.

Up to two cash drawers may be driven from this port. Driving voltage of the solenoid is DC+12V / 24V selectable (via JP7). I/O port 2F is used for drawer operation. A test program is supplied, for Linux and Windows, source code of which is available on request by software developers. OPOS driver, test software and sample dll files can be found under the Utility folder in the system driver CD attached.

(DLL Library: Utilities\Cash Drawer\cashdrawerdll\ Test Program: \Utilities\Cash Drawer\cashdrawertest\)

To test for drawer open, read port 2F, if bit 0=1 then drawer is open, if bit 0=0 drawer is closed. Before testing the cash drawer function, ensure to initiate the GPIO port first referring to the command sets below:

initGPIO=2e,87,2e,87,2e,07,2f,07,2e,f1

(2e stands for the address while '87', '07', 'f1' stands for the value to the address. All the values here are hexadecimal.)

Chapter 3

Software Installation and Setup

AL-9705 comes with a variety of drivers for different operating systems.

You may find the system CD with all the necessary drivers and utilities.

Please follow this installation sequence.

Driver installation sequence:

Chipset Driver \rightarrow NetFramework \rightarrow LAN Driver \rightarrow Audio Driver \rightarrow Touch Tools \rightarrow Utilities

The reason to follow our sequence is that IRQ settings will be changed by Windows XP to non supported values, and you may encounter unnecessary problems later.

AMD Chipset Driver Installation for Windows XP

The AMD 780E driver installation will include not only the chipset drivers, but also the built-in ATI utilities for graphics (Catalyst Control Center), audio and RAID function. During the installation, the system will show the message requesting the installation of **NetFramework**. Please direct manually to the folder to complete the process.

- 1. Insert the CD into your CD ROM Drive.
- 2. Locate the folder of D:\Driver\CHIPSET\WinXP\
- 3. Open Setup.exe



4. Click Next.

icense Agreement		
Please read the following license	agreement carefully.	Ċ
Press the PAGE DOWN key to :	see the rest of the agreement.	
End User License Agreement		~
PLEASE READ THIS LICENSE	CAREFULLY BEFORE USING THE SOFT	
THE TERMS OF THIS LICENS	E. IF YOU DO NOT AGREE TO THE TEF	E BUUND BY
LICENSE, PROMPTLY RETUR	IN THE SOFTWARE TO THE PLACE WH	ERE YOU
UBTAINED IT AND YOUR MU	NEY WILL BE REFUNDED.	
1. License. The software acco	mpanying this License (hereinafter "Softwar	re"), regardless
or the media on which it is distri	buted, are licensed to you by ATT Technolo	gies, Inc. for
Do you accept all the terms of th	e preceding License Agreement? If you ch	hoose No, the
setup will close. To install ATI S	oftware, you must accept this agreement.	
allShield		
		-1
	/ Pool/ Voo	l No

5. Read the License Agreement and click Yes.

ATI Software		$\overline{\mathbf{X}}$
Select Compone Select the comp	n ts onent you want to install.	
Please select the	component that you want to install. Express: Recommended Custom: For advanced users and system administrat	OTS
InstallShield	< Back N	ext> Cancel

6. Click Express: Recommended to start the installation.



7. Please wait while the setup program processing.

21 1158:	

8. Click OK to continue.

ATI Catalyst Control Center
Setup Status
ATI Catalyst Control Center is configuring your new software installation.
Installing: Help ZH-CHS
InstallShield Cancel

9. Please wait for the configuration process.



10. When the 'Setup Complete' message appears, click Finish to restart your computer.

NetFramework Installation

- 1. Locate D:\ Driver \CHIPSET\Win XP\Net Framework 2.0\
- 2. Open dotnetfx.exe



3. Click Next to continue.

Microsoft .NET I	ramework 2.0	Setup		
End-User License	Agreement			<u>^</u>
MICROSOFT SOFTW MICROSOFT .NET FR	ARE SUPPLEMENTAL AMEWORK 2.0	LICENSE TERMS		
Microsoft Corporation supplement to you, software (the "softw not have a license fo validly licensed copy	n (or based on when If you are licensed to are"), you may use l r the software, You of the software.	e you live, one of i o use Microsoft Wi this supplement. Y I may use a copy o	ts affiliates) licens ndows operating s 'ou may not use it f this supplement (es this ystem if you do with each
1 12 12 12		\$2 Zi	21 - 22	. 💌
			ſ	Print
y clicking "I accept t roduct, I indicate th icense Agreement.	he terms of the Licer at I have read, unde	nse Agreement" ar erstood, and agree	d proceeding to u d to the terms of	se the the End-User
✓ I accept the te	rms of the Licens	e Agreement		
✓ I accept the te	rms of the Licens	e Agreement		

4. Tick I accept the terms of the License Agreement and click Install to continue.

🕼 Microsoft .NET Framework 2.0 Setup	
Setup Complete	
Microsoft .NET Framework 2.0 has been successfully installed.	
•	
It is highly recommended that you download and install the latest service packs and security updates for this product.	
For more information, visit the following Web site:	
Product Support Center	
	Finish

5. Click Finish to complete the installation.

LAN Driver Installation

LAN Driver Installation for Windows XP

- 1. Locate D:\Driver\GIGA LAN\WinXP\
- 2. Double click **Setup.exe**.



3. Click Next to continue



4. Click Next to continue



5. Click Continue Anyway to continue the installation.



6. Click **Finish** to complete the installation procedure.

Audio Driver Installation

Audio Driver Installation for Windows XP

- 1. Locate D:\Driver\AUDIO\WinXP\
- 2. Double click Setup.exe.



3. Click Next to continue.

Realtek High Definition Aud	io Driver Setup (2.76) R2.26
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed Realtek High Definition Audio Driver. Before you can use the program, you must restart your computer.
	Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	K Back Finish Cancel

4. Click Finish to restart the system.

ELO Touch Tools Installation

- 1. Locate D:\Utilities\TOUCHSCREEN\ELO Touch\WinXP\
- 2. Select the relevant ELO folder for the operating system that you are using. For example. If you are installing for a Windows XP then select **WinXP** folder.
- 3. Open EloSetup.exe

WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows XP/Windows Vista Installer.
Driver Version 4.8.1 (08-20-2008)
Click OK to continue.
OK

4. Click OK to extract the necessary files

o unzip all l older press l	files in SW600650.exe to the specified - the Unzip button.	Unzip
Inzin to fold	er	Run WinZip
ystems\Elo	universal Driver 481 Browse	Close
🗸 Overwriti	e files without prompting	About
When do	one unzipping open:	
.\Elosetu	p.exe f-Extractor - SW600650.exe	Help
VElosetu	ip.exe f-Extractor - SW600650.exe files in SW600650.exe to the specified the Unzip button.	Help
VElosetu	Ip.exe f-Extractor - SW600650.exe Files in SW600650.exe to the specified the Unzip button. WinZip Self-Extractor	Help Unzip Run WinZip
inZip Sel o unzip all l older press l Jnzip to fol ystems\Elo	Ip.exe f-Extractor - SW600650.exe files in SW600650.exe to the specified the Unzip button. WinZip Self-Extractor 190 file(s) unzipped successfully	Help Unzip Run WinZip Close
Councip all Councip all Councip all Colder press Uncip to fol ystems\Elo Z Overwri	Ip.exe f-Extractor - SW600650.exe files in SW600650.exe to the specified the Unzip button. WinZip Self-Extractor 190 file(s) unzipped successfully	Help Unzip Run WinZip Close About

5. Click **OK** to install Elo Touch drivers and utilities.

Elo Touchscreen Setup (Ver	sion 4.8.1.0)	
BO TOUCHSYSTEMS	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.	
	Default	

6. Select **Default** and click **Next** to continue.

Elo Touchscreen Setup (Ve	rsion 4.8.1.0)	×
TOUCHSYSTEMS	Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Choose Enable PreCalibration to store calibration data in touch-monitors Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Enable PreCalibration	
	< Back Next > Cancel	

7. Tick the Install USB Touchscreen Drivers and click Next to continue.



8. Read the "License Agreement" and click Yes if you accept it.

Elo Touchscreen Setup (Version 4.8.1.0)
Installing Elo Touchscreen drivers and components Copying files

9. Please wait for the installation to be completed.

Elo Touchscreen Setup (Vei	rsion 4.8.1.0) 🛛 🔀
BO TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.
11 Hall	Calibrate Elo Touchscreen monitors.View Readme.
ARG	Click Finish to exit Setup,
	< Back Finish

10. Select Calibrate Elo Touchscreen monitors and click Finish to start the calibration.

Touch targets from position of normal use	
l≹	

11. Please use a soft-tip object such as finger to calibrate the touch screen (Red bull's eye will pop up three times in different positions)



12. Click " v to finish the installation

ELO Control Panel

This section explains the different options in the ELO control Panel.



General tab

The General tab allows you to calibrate the touch screen with the Align button.

General Mode Sound Properties 1 About	1
Video alignment : convert touchsor coordinates. Align the touchsor * Initially inst * Change the hardware. * Notice the of finger.	enables the computer to reen coordinates into image creen whenever you: all the touchscreen drivers. e touchmonitor or touchscreen cursor isn't lined up with your
Align	

Mode tab

The Mode tab allows you to:

- Adjust all mouse emulation controls.
- Change cursor properties
- Enable or disable right mouse button utility.

eneral Mode Sound Properties 1	About
-Mouse button emulation mode	Drag delay
C Click on touch	
C Click on release	Untouch Timeout
Mouse emulation	10 Seconds
Options	Double click area
☐ Hide arrow mouse pointer	
Left-handed mouse	
🔽 Show tool tray utility	
Calibration mode	
Normal	C Enhanced

Sound tab

The Sound tab allows you to:

• To change sound properties for ELO touch tools.

Elo Touchscreen Properties	? 🗙
General Mode Sound Properties 1 About	
Sound	-1
🔽 Beep on touch	
Low <u>Tone</u> High	
Short Duration Long	
Touch here to test beep sound	
Ok Cancel Apply He	

Properties tab

The Properties tab allows you to:

• View Controller Information.

o Touchscreen Properties	?
General Mode Sound Properties 1	About
Screen Information	
Windows monitor number:	1
Touchscreen type:	AccuTouch
Connection Port:	СОМЗ
Controller model:	SCOACh [2.0 - 0.0]
Controller Status:	Working properly
Controller Serial Number:	000000
Video Alignment Identify Align	Advanced
ok ca	

About tab

The About tab displays Information about ELO Touch systems

Elo Touchscreen Properties	×
General Mode Sound Properties 1 About	
GOD	
Readme	
Users Manual	
www.elotouch.com	
Elo Touchscreen Control Panel	
Version 4.8.1.0	
Copyright © 2008	
Elo TouchSystems All rights reserved.	
Ok Cancel Apply Help	

TouchKit Tools Installation (Fujitsu)

- 1. Locate D:\Utilities\TOUCHSCREEN\TouchKit(Fujitsu)\WinXP
- 2. Select the relevant folder for the operating system that you are using. For example. If you are installing for a Windows XP then select **WinXP** folder.
- 3. Click Setup.exe



4. Click Next

TouchKit		
Setup Type Select the setup type that bes	t suits your needs.	TouchKit
	Extra PS/2 interface driver for TouchKit controller. Please check the check box for PS/2 touch controller.	
InstallShield	< Back Next > R	Cancel

5. Click Next (ignore optional item)

TouchKit		
Setup Type Select the setup type that best	suits your needs.	Touchkit
	Do 4 point calibration	
	Every system boot up	
	 None 	
Installined	< <u>B</u> ack Next > 12	Cancel

6. Click Next (set optional item as None)



7. Click OK



8. Click Next (Support Multi-Monitor System)

TouchKit		X
Choose Destination Location Select folder where setup will insta	l files.	TouchKit
	Setup will install TouchKit in the following folder. To install to this folder, click Next. To install to a different fol folder. Destination Folder- C:\Program Files\TouchKit	der, olick Browse and select another
Instaliöhield	< Back	Cancel

9. Click Next to start install



10. Click Next to continue.

TouchKit	×
Setup Status	TouchKit
	TouchKit is configuring your new software installation.
Instališnieki	Cancel

11. System will automatically detect the interface that touch sensor is connected (Factory setting is USB port).

Questio	n 🛛 🔣
2	The TouchKit driver has been installed, before operating touch function, please do 4 point calibration. Would you do 4 point calibration now ?
	Yes No

12. Click Yes to continue the calibration procedures

	Please touch each 'X' until it stops blinking.
	μξ
- -	

13. Please use a soft-tip object such as finger to calibrate the touch screen (Red bull's eye will pop up four times in different positions)

E age Compei	nsation	Hardware		About
General	Setting	Tools		Display
inearization Cur	ve			
1				
		4 <u>9</u>		
				(7
xtkutility				
xtkutility 4 Linearization	points calibration	completed. Press OK Its linearization for	[Ok] to c better to	continue uchscre

14. Click **OK** to finish the calibration.

Fuji TouchKit Control Panel

This section explains the different options in the TouchKit control Panel.

General tab

The general tab allows you to:

• View the interface your touch screen is set to.



Setting tab

The Setting tab allows you to:

• Set Beeper, Double Click and Linearization Style.

Edge Compens	ation	Hardwa	About
General	Setting	Tools	Display
Beep 🗸 Beep On Toud	ch	Frequen	cy 🌾
🗍 Beep On Rele	ase	Duration	n
Linearization Style	,		
9 Points			
C 25 Points			
Double Click Time	•		
Shorter<<		<u> </u>	>>Longer
Double Click Area			
Smaller<<	4]	>>Bigger
ō	Normal Mode		Option

Tool tab

The Tool tab allows you to:

• Calibrate the touch screen with the **4 pts Cal** button.

General	setting	Hardware Tools	1	About Display
inearization Curve			1.500	
			2	
4 Points Calibration	Do 4 point	s alignment to ma	atch dis	olay.
Class and Calibrate	Clear linea alignment.	rization paramete	er and d	o 4 points
clear and calibrate				
Linearization	Do 9 point linearity.	s linearization for	better t	ouchscreer

Display tab

The Display tab allows you to:

• Set Display mode

😽 Touchkit : Seria	l Controller		
Edge Compensa	tion Hardw	vare	About
General	Setting 1	ools	Display
Display			
Double click on the F Enable Multiple F Map to main di	e monitor area to map the Monitors. splay if system has only o	touchscreen to the display monito	ne display
Operation Mode Constant American Mode	C Lower Screen		n
C Upper Scree	n 🧿 Right Screen	C Other	->>
	ОК	Cancel	Apply

Edge Compensation Tab

The Edge Compensation tab allows you to set edge compensation to improve touch accuracy

General	Setting	To	ols	Display
Edge Compe	nsation	Hardwa	re	About
dge Paramete	is	100 %		
Smaller<<				>>Bigger
	Left	100 %		
Smaller<<		100 %		>>Bigger
Smaller<<	Bottom	100 %		>>Bigger
	Right	100 %		
Smaller<<				>>Bigger
Smaller<<	Offset X Axis		Pixel	>>Bigger
	Offset Y Axis	0	Pixel	
Smaller<<				>>Bigger
Support Edg	ge Compensation			
- 10 %)efault		+ 10 %

Hardware tab

The Hardware tab shows the Touch screen hardware version information

uchkit : USB C	ontroller		
General	Setting	Tools	Display
Edge Compensati	on	Hardware	About
Controller Model	4WIRE		
Firmware Version	2.30B		
		1	
	Hardware	Setting	
			51
	01	Cancel	- Arer

About tab

The About tab show the Utility version information

ouchkit : US	3 Controller			
General de General	Setting Isation	Tools Hardware		Display About
	Touch Sc CopyRigh <u>eGalax e</u> Version 5.	reen Utility t(c) 2000-2008 <u>MPIA Technolog</u> 0.0.5203	<u>ıy İnc.</u>	
We provide a fu both analog res The resistive co through RS232,	Ill range of contro istive and capacit ntroller communic . PS/2 or USB po	llers for ive touch panels ates with the PC rt.	s. Cisystem c	lirectly
The design is of performance as	otimized for an ac well as an ease o	curate, sensitive of use interface.	and quic	k touch
The driver supp i.e. Windows XF	orts a set of opera ? x64, Windows \	ating systems, /ista x64		
<	1	1.		

Wireless LAN Driver Installation

- 1. Locate D:\Utilities\Wireless LAN\Ralink
- 2. Open Setup.exe



3. Click "Next" and start the installation



4. Select "Ralink Configuration Tool" and click Next to continue.



5. Select "Optimize for WiFi mode" and click Next to continue.



6. Click Install to continue.



7. Wait while the installation is processing.

Ralink Wireless LAN - InstallS	hield Wizard
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed Ralink Wireless LAN. Click Finish to exit the wizard.
Ralink	
InstallShield	Kack Finish Cancel

8. Click "Finish" to complete the installation.

Utility Settings and Illustration

Dual Display Settings

The ATI Catalyst Control Center is the utility that allows the user to adjust graphics-related properties and features easily. Detailed settings guide can be found from the **Help** center provided in the utility.

1. Locate Catalyst Control Center from the startup menu.



2. Select Advanced mode to continue the settings.



3. Click Yes to continue.



4. Select the options required to be adjusted from the left-side pull-down list.

Graphics Settings		
🥙 Welcome 🔼	Displays Proper	ties
Graphics Softwa	Graphics Adapter :	
Graphics Hardw	1 ATL Badeon HD 3200 Graphics LASUS MM17T 1	
Displays Manager	Deskton and Display Setup	
Display Options		
🖃 厦 Monitor Properties 0	Main:	
Attributes		2
Adjustments HDTV Support		Aun
Avivo™ Color	Attached displays currently disabled:	
🖃 🔖 3D		
Standard Setting		
Adaptive Anti-Al	To make changes, drag or right-click the display	Detect Displays
Anisotropic Filte	Selected Display on: ATI Badeon HD 3200 Graphics	
	ASUS MM17T [Single]	
	Lines mitter [engle]	
	Desktop area: Color quality: Refre	esh rate:
DODDDD	1024 x 768 💌 High (32-bit) 💽 60 F	łz
RHDEON	Rotation:	-
GRAPHICS	Standard Landscape (0°)	Force

5. Select **Display Properties** from the menu to set the dual display options. Click **OK** to save the adjusted settings.

RAID Function BIOS Settings

To enable the RAID function in the system, please complete the following steps illustrated basing on Windows XP.

1. During system booting, press **** key to enter the BIOS setup menu.



2. Enter OnChip SATA Device and select OnChip SATA Type to [RAID]. Press <F10> to save the setting and wait for the computer to reboot.



3. Press <Ctrl-F> to enter the RAID Option ROM Utility.



4. Press <2> to enter the RAID settings.

ock: 64 KB	Fast Init: ON
loundary: UN	Cache Mode: WriteThru
C BUTINESS BE Drive Model Cap 5 FUJITSU MHY2040BH SAT 5 FUJITSU MH22080BH C2SAT	abilities Capacity(CB) Assign A 1.5C 40.80 A 3C 80.82
	C Derive Model Cap S FUJITSU MHY2040BH SAT S FUJITSU MHY2060BH C2SAT

5. Set the *RAID Mode* (RAID0/1/10/JBOD/RAID Ready) to the one desired. Set to **RAID 0** for mirror function and set *Assignment* to **Y** for both drives. Press <**Ctrl-Y**> to continue.

LD NO	RAID Mode	Total Drv		
Stripe Block Gigabyte Bo	t: 64 KI undary: ON		Fast Init: ON Cache Mode: Wr	
Channel:ID 1:Mas 2:Mas	Fast Initial It will erase (Press Ctrl- (Press any o	ization Option hi e the MBR data of Y Key if you are ther key to ignol	as been selected f the disks. sure to erase it> re this option>	Assignment Y Y

6. Press **<Ctrl-Y>** to continue the setting.

LD No	RAID Mode	Total Drv	Capacity(CB)	Status
10 1	RAID 8	2	77.99	Functional
10 2				
LU 2				
10 0				
LU				
10 0				
LB 3				

7. Press **<Enter>** to continue.



8. Press <Y> to reboot the system.



9. Press <F6> to install the RAID driver via a floppy disk. The Win XP drivers required may be found in the driver CD "\ Driver\RAID -OS install\Floppy_AA780W \". As for Win7, the drivers were built in already in the OS. There would be no need to install extra drivers for RAID function.

(*Note*: If the RAID driver installation cannot succeed in the Windows XP OS, please refer to the *<u>Troubleshooting</u>*.)



10. Press **<S>** to specify additional device.



11. Insert the driver disk to the assigned location and press **<Enter>** to continue.



12. Select AMD AHCI Compatible RAID Controller-x86 platform to continue.



13. Press **<F3>** to finish.

Note:

A remote RAID control utility (RAIDXpert) is provided by AMD. If the user requires such application, please search the startup menu for RAIDXpert as below.



Log in the website with "admin" for both Login ID and Password to initial the service.



Enter **User management** \rightarrow **Create** tag to register the desired user login info.

AMD RAIDXpert		L	nguage English	Show Event	Contact Us Logout	Help
Administrative Tools User Management Host Management Utility Configuration AMD RAIDXpert	User Manageme	ent Delete				?
Controller 1 Controller 1 Controller 1 Space Drive View Spare Drive View	User ID* Display Name Password * Retype Password Email W Host User Biothts			(4-20 character(s)) (0-20 character(s)) (4-8 character(s))		
	Host Oser Hights Host Name Creat locahost	tion Rights	Deletion Rights	Maintenance Rights	Notification Right:	

Realtek Audio Tool Settings for Dual Strings

To enable the independent dual string function, please complete the following steps illustrated basing on Windows XP.



1. Double click on the Realtek utility icon on the Windows toolbar.

- Communitie		REALTI	EK	00
Sound Effect Mi	xer Audio VO	Microphone	3D Audio Demo	
Playback	Wave	SW Synth	Realtek HD Audio output CD Player	
		1	Ī	
Record	Mic Volume	Stereo Mix	Realtek HD Audio Input	
		Ļ		1 - 1 - 1 - 1 -
	0	0		
(rip)			6	ОК

2. Click the icon to enter the Mixer ToolBox.



3. Select **Enable playback multi-streaming** so that the front audio output (system built-in speakers) can be different from the rear audio output (line-out port). Click **OK**.

			AL-9705	
		REALTE	к	00
Sound Effect	Mixer Audio I/O	Microphone	3D Audio Demo	
Playback	Wave	SW Syr	Realtek HD Audio output Realtek HD Audio output	-
			Realtek MD Audio 2nd output	
1	[4]	R.		
Record	Mic Volume	Stereo Mix	Realtek HD Audio Input	•
		ļ		
	0 =	0		
(i)				ок

4. Select **Realtek HD Audio output** and click **OK** to save the setting. Then initiate the 1st media player which should be assigned as the 1st output.

- (REALT	EK	00
Sound Effect	Mixer Audio I/O	Microphone	3D Audio Demo	
Playback	Wave	SW Synih	Realtek HD Audio output Realtek HD Audio output Realtek HD Audio 2nd output	5
Record		ব	Kii Realtek HD Audio Input	•
	Mic Volume			
() (i)	0.	0		ОК

5. Select **Realtek HD Audio 2nd output** and click **OK** to save the setting. Then initiate the 2nd media player which should be assigned as the 2nd output.

Chapter 4

Specifications

AL-9705 Specifications

System Configuration	
CPU (AM2)	AMD Athlon 3100+ (2.0GHz) / Dual Core 3600+ (1.9GHz)
Chipset	AMD RS780E
South Bridge	AMD SB710
Memory	Support Two DDRII 400/533/667/800MHz SDRAM up to 4GB
VGA controller	ATI Radeon HD3200 GPU Integrated in RS780E. Up to 256MB maximum shared memory, allocating system memory dynamically
Primary LCD Panel	15" TFT LCD Panel (1024x768).
Primary Touch Panel	15" with Fuji 4-wire or ELO 5-wire resistive touch panel via USB
Storage	 Internal 2.5" Serial ATA hard disk drive x 1 as default 2nd 2.5" Serial ATA hard disk drive as optional (RAID function supported)
Speaker	Integrated 2W x 2 stereo system speakers
Power	150 watts external power supply
I/O Port	
Serial Port	- 5 User available COM ports (COM2 / 3 / 4 / 5 / 6). - 1 Reserved (COM1) for i-Button connection.
Data Port	RJ45 connector type for Key Pro application
USB port	10 USB 2.0 ports (2*Internal, 8*External)

Cash drawer port	RJ11 Cash drawer port,12V / 24V selectable by jumper (JP7).
Keyboard Port	One PS/2 keyboard port.
LAN Port	10/100/1000M Base-T Ethernet Controller, Realtek RTL8111C
VGA Port	Standard D-SUB 15 Pin VGA Port
Display Port	Standard 20 Pin Display Port
DC Out	DC 12V Out
Audio Port	Integrated Sound Blaster compatible. (Realtek ALC268 HD Codec, Dual-String Output Support)
Expansion Slot	
PCI-E x 16	PCI express x 16 Connector (optional)
Mini PCI-E	Mini PCI-E socket (optional)
Optional Features	
Customer display	Pole-type VFD / 12" / 15" LCD customer display
3-in-1 ID Module	 MSR IC Card Reader Finger Print or RFID
I-Button	COM port interface, located on the base (available ONLY by factory order)
Wireless	 Internal WiFi Module(USB)
Power Consumption	
Power consumption	70W (Standard system while running programs and accessing HDD).
Operating temperature	
Operating temperature	0 °C ~ 40 °C

Chapter 5



Please note that the following troubleshooting guide is designed for people with strong computer hardware knowledge such as System Administrators and Engineers.

ELO Touch Panel Cannot Calibrate Correctly

- A) Please replace the ELO controller, and re-calibrate. If this works, change back to the original ELO controller, and re-calibrate.
- **B)** If the ELO touch panel still cannot calibrate correctly after changing to a new ELO controller, the touch panel may be not installed properly or it could be defective.

LAN Is Not Functioning Properly

- A) Check if the LAN driver is installed properly. (Please refer to the LAN driver installation)
- B) Check if there are any IRQ conflicts.
- C) Check if the RJ45 cable is properly connected.
- D) The on board LAN chip could be defective.

COM2/3/4/5/6 Are Not Functioning Properly

- A) Check if the I/O ports are enabled in the CMOS setup.
- B) Check if there are any IRQ conflicts.
- C) The motherboard could be defective.

Cash Drawer Port Is Not Functioning Properly

- A) Make sure the pin assignment matches between the cash drawer and the RJ11 cash drawer port.
- **B)** Check if JP7 is set to the corresponding voltage (12V or 24V) as the applied cash drawer requests.
- C) Verify the digit I/O port address is 2F
- D) The motherboard could be defective.

USB Device Is Not Functioning Properly

- A) Ensure that the USB controller is "enabled" in the CMOS setup.
- **B)** Ensure that the USB Legacy is "enabled" in the CMOS setup. (Windows 2000 \vdot Window XP Professional)
- C) Ensure that the USB Legacy is "Disabled" in the CMOS setup. (Embedded OS: Windows XP Embedded \vee Window CE. NET \ Linux RedHat 9)

RAID Driver Installation Cannot Work via USB Floppy Disk in Windows XP

- A) Check if the USB floppy disk drive is properly connected to the terminal.
- B) There may be a compatibility issue. Please check the following technical support website from Microsoft to see if the USB floppy disk drive you use has compatibility issue with Windows XP OS. <u>http://support.microsoft.com/kb/916196/en-us/</u>