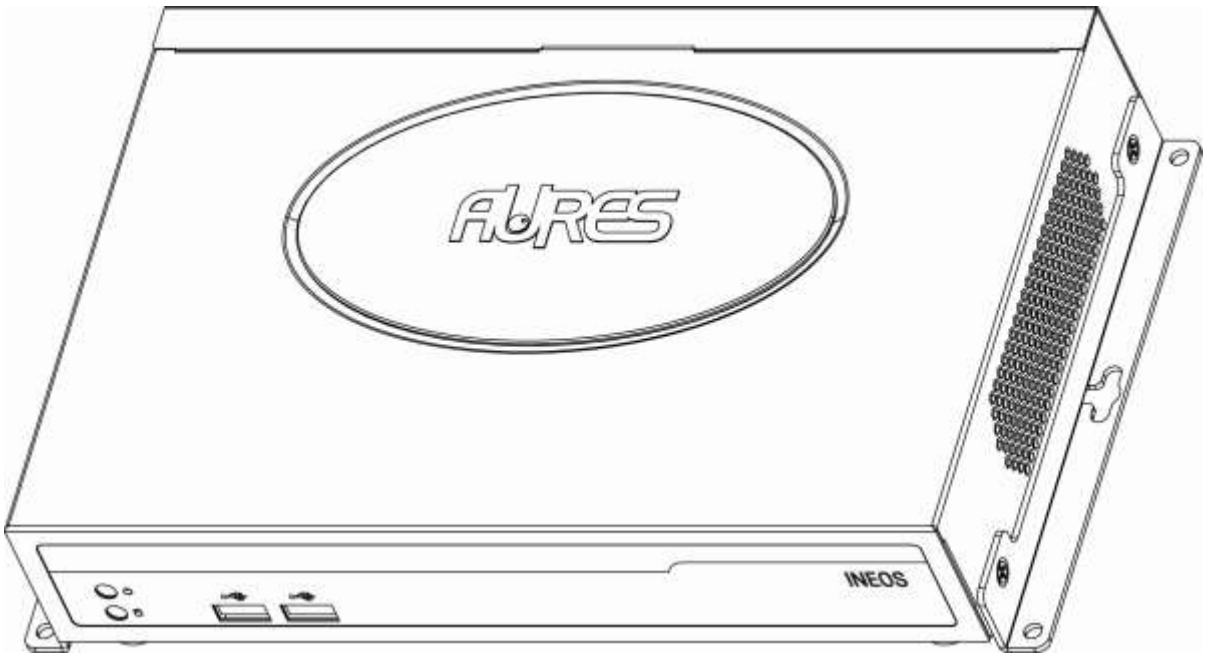
USER MANUAL

BOX PC
INEOS 800 Ⅱ



User Manual Version 0.1
November 2014

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Safety

IMPORTANT SAFETY INSTRUCTIONS

Please read these safety instructions carefully and keep this User's Manual for later reference. Ensure to follow all warnings and instructions marked on the product. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.

1. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
2. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
3. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
4. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
5. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
6. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
7. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
8. Please carry the unit with both hands, handle with care.
9. Properly maintain and clean the surfaces, use only approved products or clean with a dry applicator.
10. If one 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.
11. All cautions and warnings on the equipment should be noted.

Warning	● *Keep this equipment away from humidity. Never pour any liquid into an opening. This may cause fire or electrical shock.* ● *This equipment shall not be used for life support system.*

IMPORTANT SAFETY STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates uses and can radiate radio frequency energy. If not installed and used in accordance with this user's manual, it may cause harmful interference to radio communications.

Note that even when this equipment is installed and used in accordance with this user's manual, there is still no guarantee that interference will not occur. If this equipment is believed to be causing harmful interference to radio or television reception, this can be determined by turning the equipment on and off. If interference is occurring, the user is encouraged to try to correct the interference by one or more of the following measures:

Warning	*Any changes or modifications made to the equipment which are not expressly approved by the relevant standards authority could void your authority to operate the equipment.*

CE MARK

This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility”.

FCC

This device complies with part 15 of the FCC rules for a Class B digital device. 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

If your computer is losing dramatic time or the BIOS configuration reset to default, the battery has no power. Do not replace battery yourself. Please contact a qualified technician or your retail. Contact your sales representative for technical support if you need additional assistance. This is because a danger of explosion will occur if the battery is replaced incorrectly.

Warning	• *Input voltage rated 24 VDC,3.75 A maximum (DC Mode)* • *Use a 3 V @ 225mA lithium battery (Model No.CR2032)*

LEGISLATION AND WEEE SYMBOL

The box PC follows the national requirement to dispose unit. 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.

Revision History

Changes to the original user manual are listed below:

Revision	Description	Date
0.1	Initial release	November 2014

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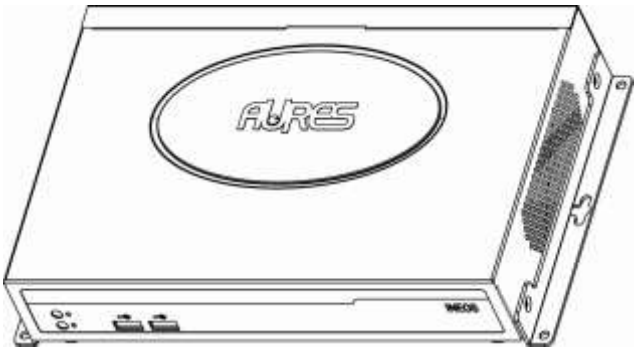
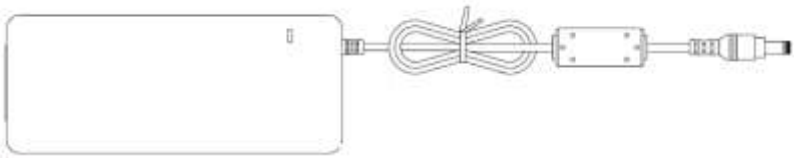
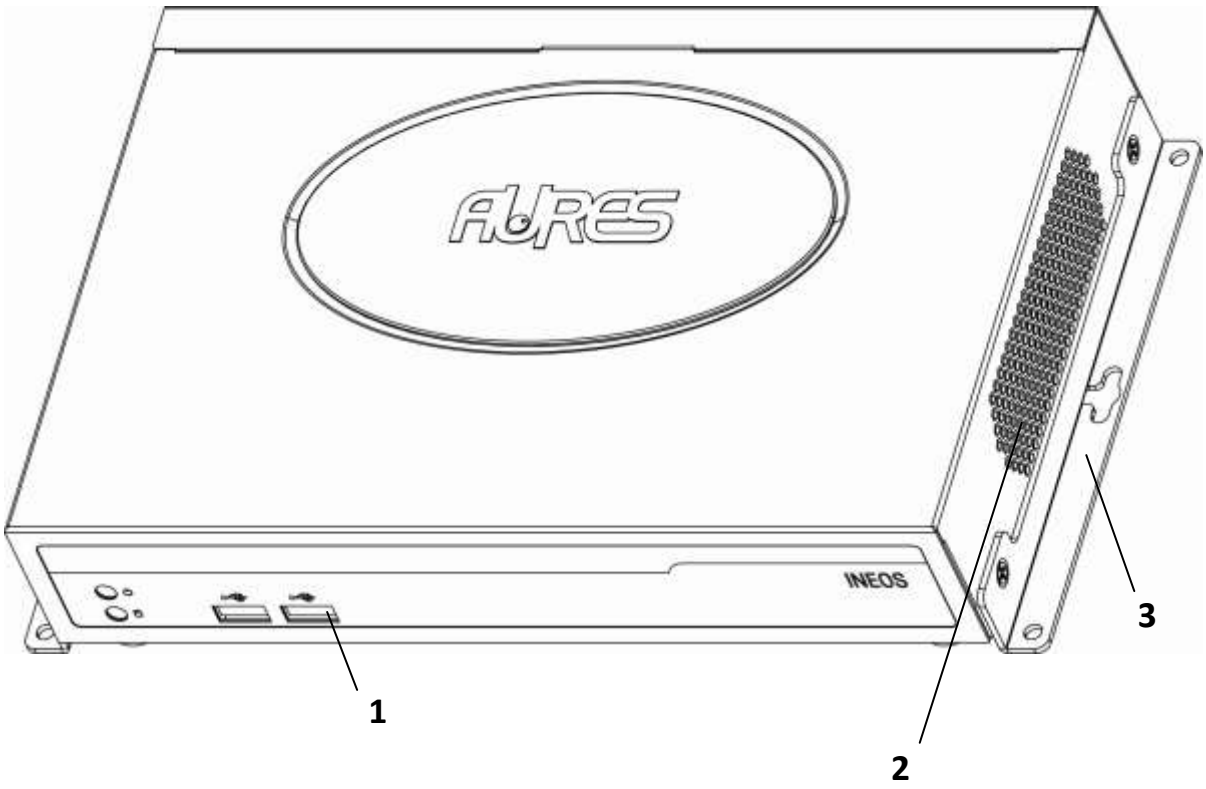
1. *PACKING LIST*

1-1. Standard Accessories

a. System box	
b. Power adapter	

2. *System View*

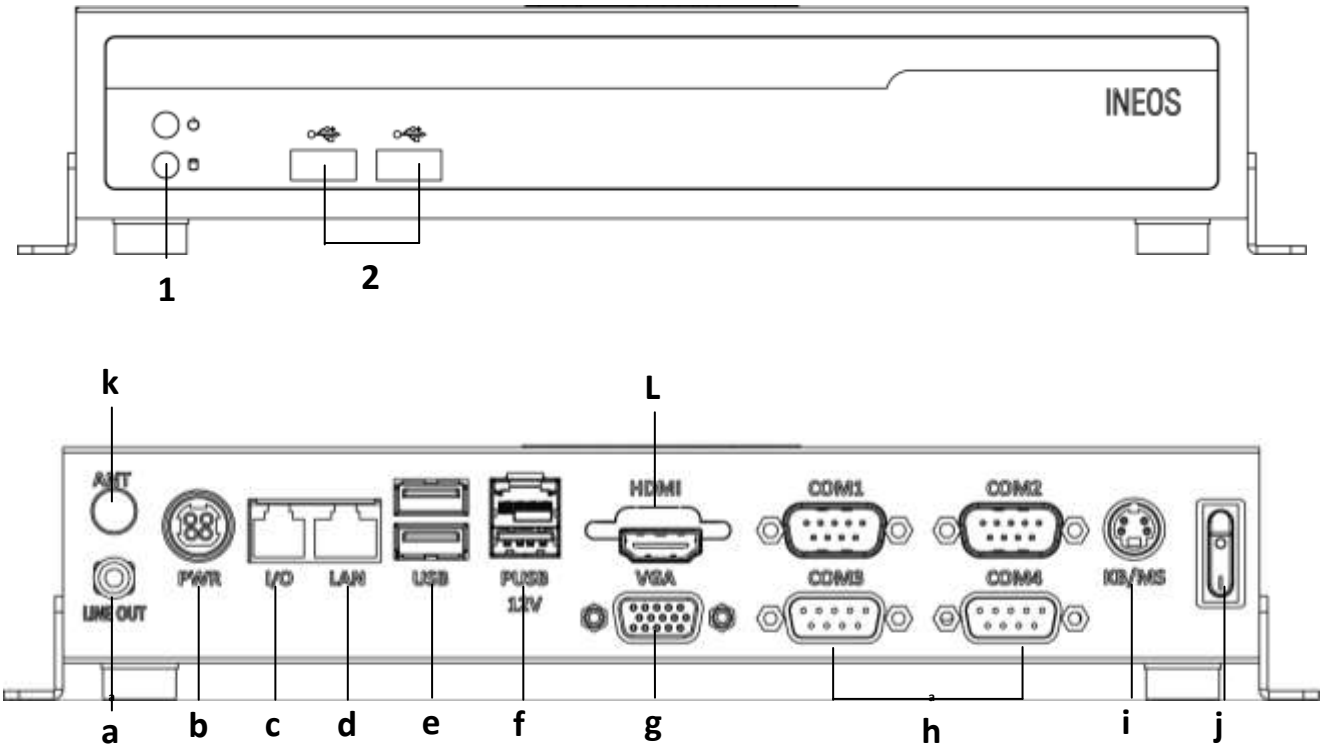
2-1. Front and Side View



1. I/O placement
2. Ventilation holes
3. Mounting brackets

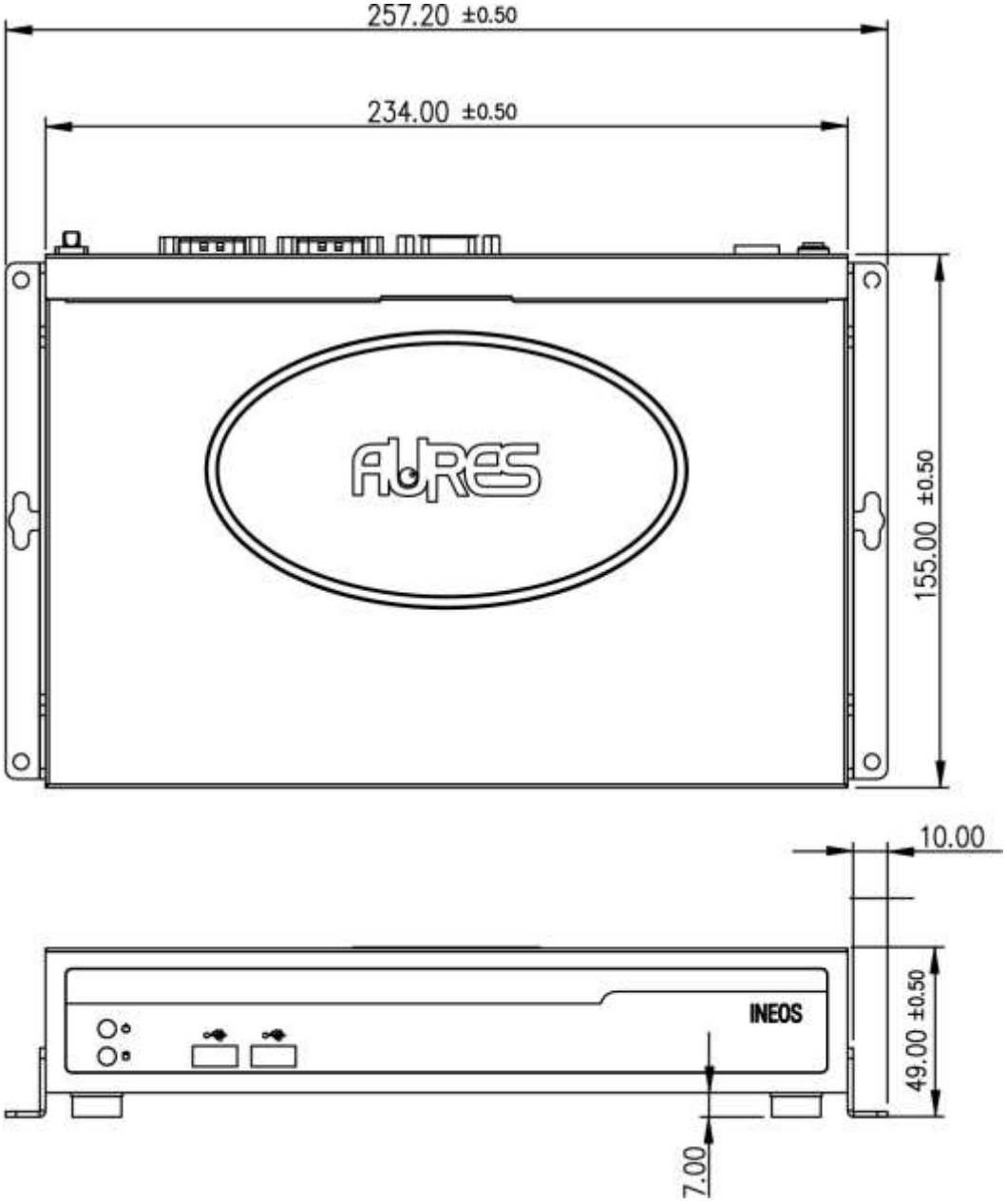
Warning	*Do not leave this equipment in an uncontrolled environment where the storage temperatures is below 10 ° C(-14 ° F) or above 50 ° C (122° F). This may damage the equipment.*

2-2. I/O View



Item No.	Description
1	Power & HDD LED indicators
2	USB x 2
a	Line-Out
b	DC Jack
c	Cash Drawer Port
d	LAN port
e	USB 2.0 x1(black) ; USB 3.0 x1 (blue)
f	12V powered USB 2.0x 1
g	VGA port
h	COM Port x 4 (COM1 & COM2: with RI/5V/12V)
i	Keyboard /Mouse port (P/S2 port)
j	Power button
k	Antenna hole
L	HDMI port

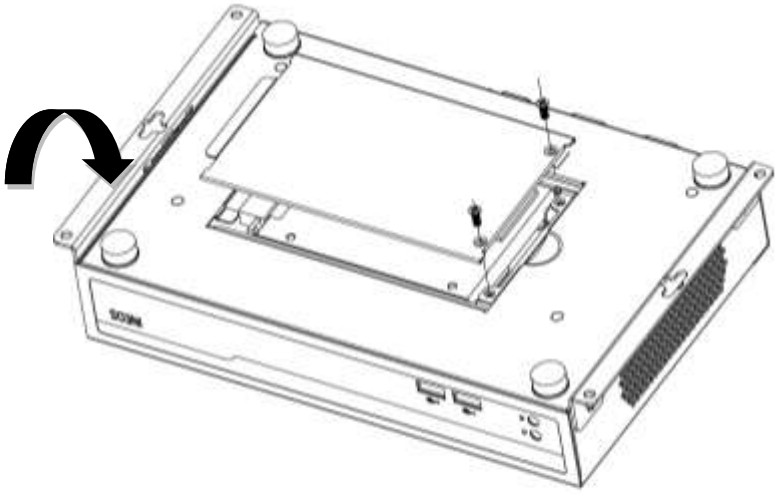
2-3. Dimensions (Unit: mm)

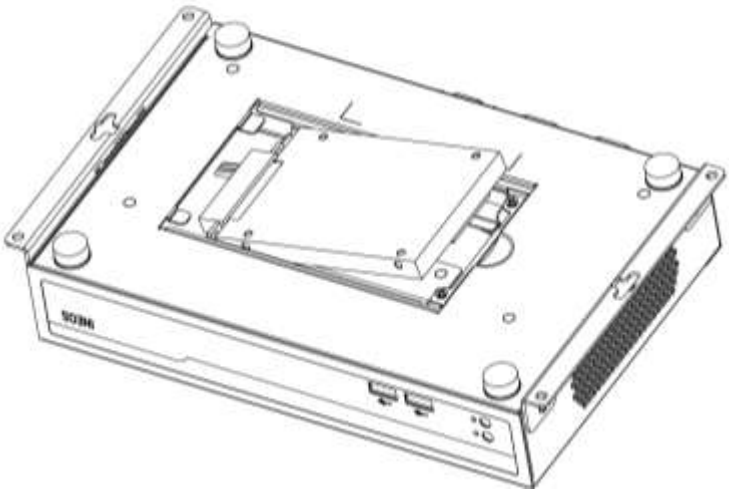


3. *Components Replacing*

3-1. HDD Replacing

1. Turn system unit upside down and HDD door is located in the bottom.
2. Open the HDD door by unfastening the screw (x2).
3. Disconnect the HDD connectors (x2) and replace the HDD.





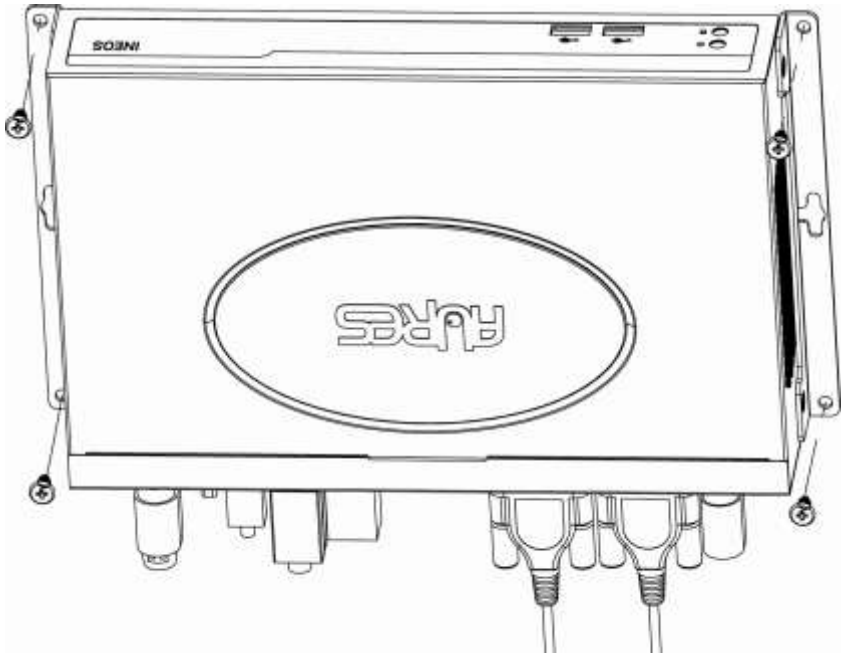
3-2. Wall Mounting Module Installing

The box PC comes with wall mount brackets and if you do not need it. You can unfasten the screws (x4) by the side of box PC based on the direction.

Likewise, you can assemble the box with mount brackets back by fastening the screws (x 4) by the side of box PC based on the direction.

Please follow the steps to secure your own wall-mount brackets with specified screws to fix the system box onto the wall.

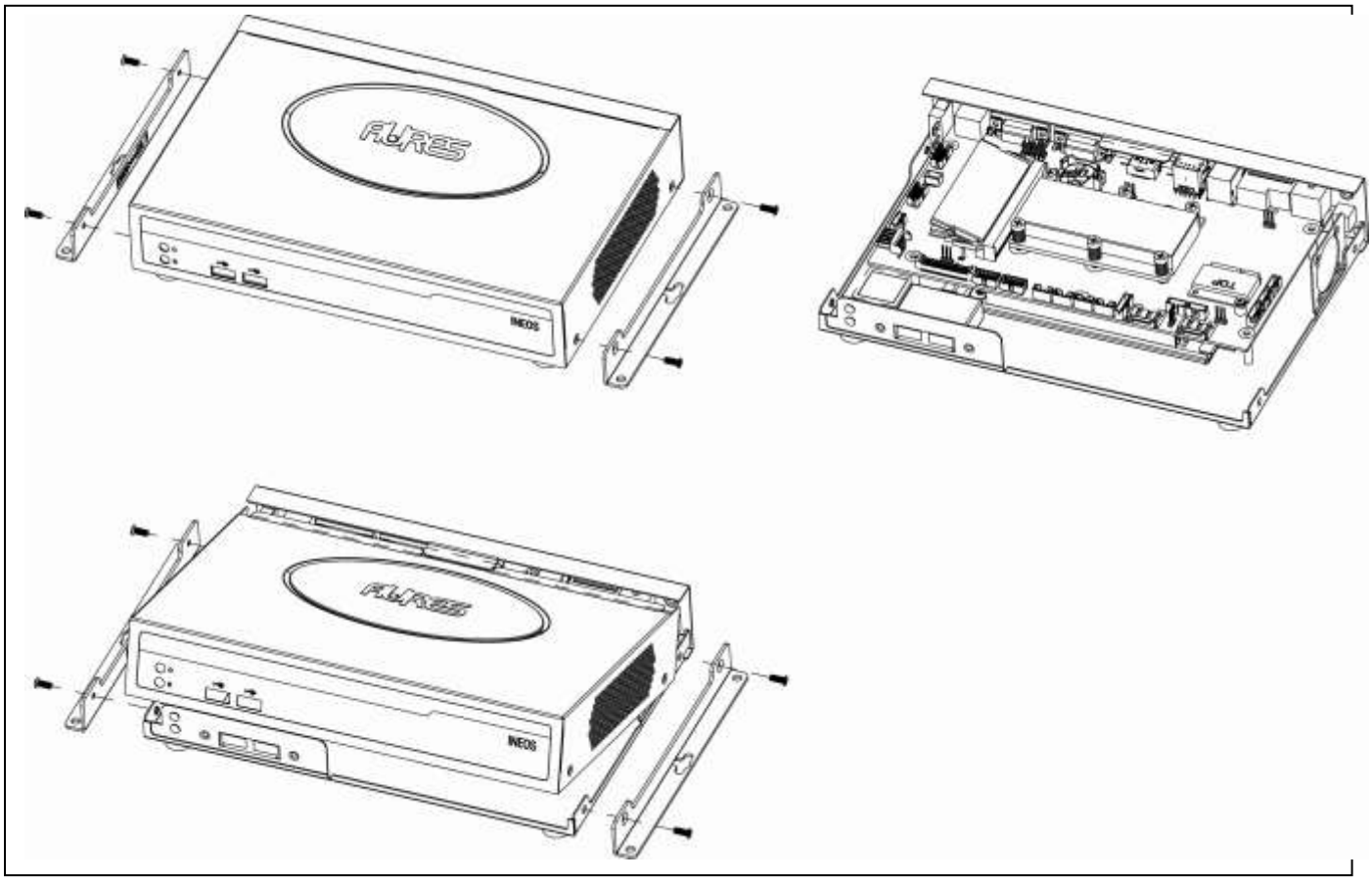
- Specified screws:M4.0*0.7P
- Suggested length: over 5 mm



Warning	*Mounting brackets installation should be operated by professional technician, please contact the service technician or your retail if you need this service. Improper installation of mounting bracket can result in serious personal injury!*

3-3. Memory Replacing

1. Unfasten 4 screws of mounting brackets and open the top cover.
2. Remove the top cover before memory replacement.
3. Use both fingers to pull the ejector clips out of the sides of the module.
4. Slide out to remove the memory module from the memory slot.
5. Slide the memory module into the memory slot and press down until the ejector clips click in place.



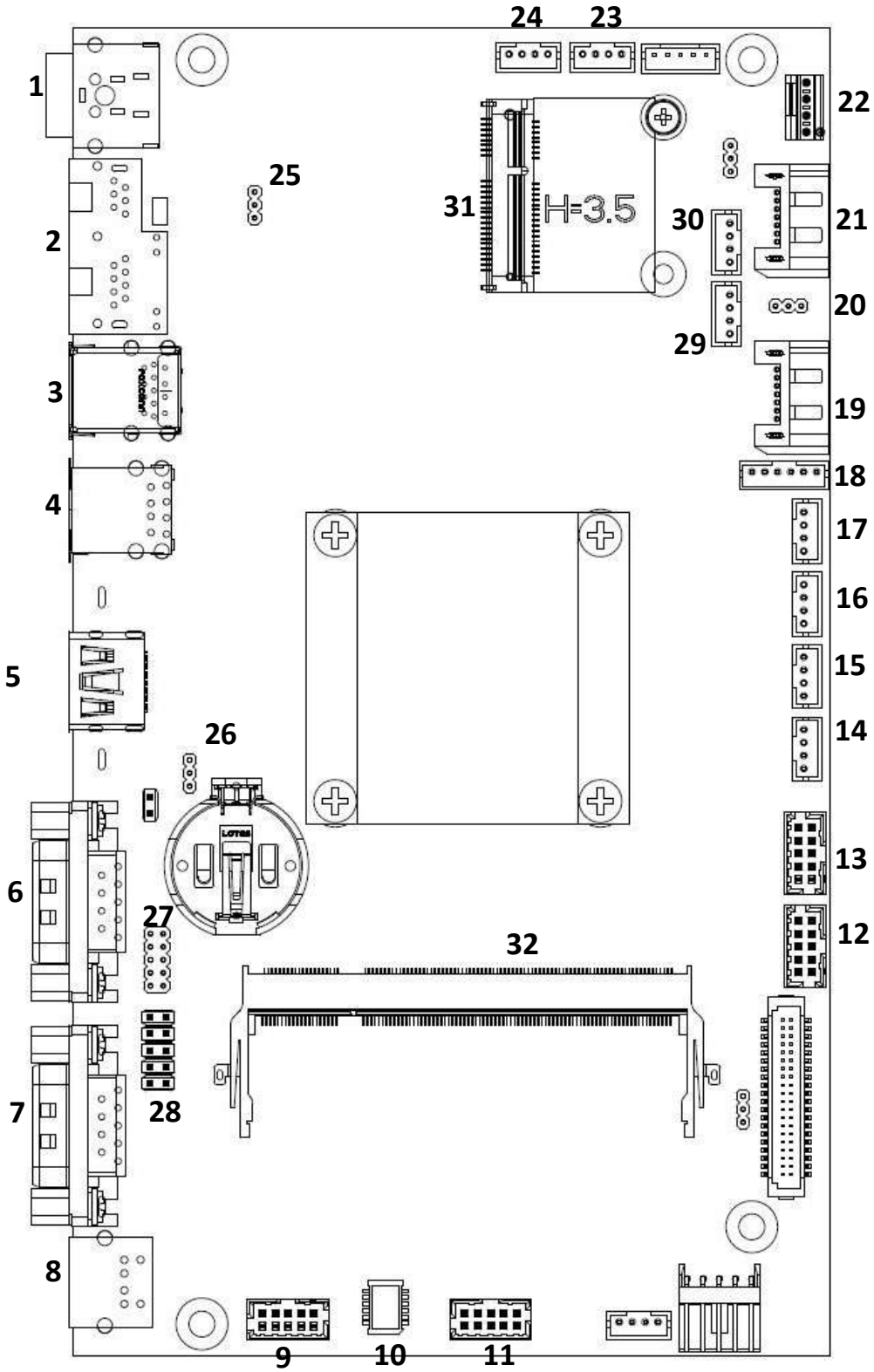
Warning	*Mounting brackets installation should be operated by professional technician, please contact the service technician or your retail if you need this service. Improper installation of mounting bracket can result in serious personal injury!*

4. *Specification*

System	
CPU(SOC)	Intel® Celeron J1900 4C 2.0GHz 2M Cache
Storage	
HDD Support	1 x 2.5” SATA HDD
Memory	
DRAM	1 x 204-pin SO-DIMM socket Support DDR3L(1.35V) 1066/1333 MHz(Max:4GB)
I/O Ports	
Display	1 x VGA D-SUB 15-pin 1 x HDMI port
USB	2 x USB 2.0 port (Front side) 1 x USB 2.0 port & 1 x USB 3.0 port (Rear side) 1 x powered USB 12V, Max.1A (Rear side)
Gigabit Ethernet	1 x RJ45 LAN port with two LED indicators
Cash Drawer	1 x RJ11 with 12V/24V jumper selectable power (Max.2A)
COM	4 x D-SUB 9-pin port COM1 & COM2: with RI/5V/12V selectable by BIOS (Max.1A)
Key Board / Mouse	1 x mini DIN 6-pin
Line out	1 x Audio Jack
Indicators	2 x LEDs (Power: Green & HDD: Red)
Other Expansion	
Mini-PCIe	Expansion for wireless module
Internal USB	2 x USB 2.0 port pin header (available)
Internal COM	1 x internal pin header

5. *Jumper Setting*

5-1. Motherboard Layout



5-2. Connectors & Functions

Jumpers	Location #	Function	Remark
JSATA**1**	20	SATA**2** Power ON/OFF setting	1 x 3 header
CD_PWR1	25	Cash Drawer VCC Select	1 x 3 header
CMOS1	26	Clear CMOS	1 x 3 header
Connector	**Location #**	**Function**	**Remark**
COM1	6	RS232	DSUB-9M connector
COM2	7	RS232	DSUB-9M connector
COM3	12	RS232	2 x 5 box header
COM4	13	RS232	2 x 5 box header
COM5	11	RS232	2 x 5 box header
DC_IN3	1	24V DC in connector	4 hole power jack
DIMM1	32	Memory socket	slot
HDMI1	5	Video	HDMI-19M connector
J5	9	Status LED header	2 x 5 box header
KBMS1	8	PS2 KB/MS Connector	MINI DIN-6 connector
LED1	10	LED Panel Header	2 x 6 wafer
LINE_OUT1	23	Line Out	1 x 4 wafer
LPC1	28	Low Pin Count Header	2 x 5 header
MINIPCIE	31	Mini-PCIe socket	slot
MSR1	18	PS2 Mouse Header	1 x 6 wafer
PUSB1	4	12V Power USB Connector	TYPE A USB connector
RJ1	2	Cash drawer + LAN connector	RJ45+RJ11 connector
SATA_PWR1	30	SATA1 Power	1 x 4 wafer
SATA_PWR2	29	SATA2 Power	1 x 4 wafer
SATA1	21	SATA connector	SATA-7M connector
SATA2	19	SATA connector	SATA-7M connector
SPK_OUT1	24	Speaker Out	1 x 4 wafer
SYS_FAN1	22	System Fan Header	1 x 4 wafer
USB1	17	USB 2.0	1 x 4 wafer
USB2	16	USB 2.0	1 x 4 wafer
USB4	3	USB 2.0 +USB 3.0	USB connector

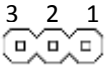
USB5	15	USB 2.0	1 x 4 wafer
USB6	14	USB 2.0	1 x 4 wafer
VGA2	27	VGA Header	2 x 5 header

5-3. Jumper Setting

★: Manufacturer Default Setting

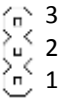
JSATA1 (Location # 20)

PIN No.	Description
1-2	ON
2-3	OFF ★



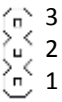
CD_PWR1 (Location # 25)

PIN No.	Description
1-2	+12
2-3	+24 ★



CMOS1 (Location # 26)

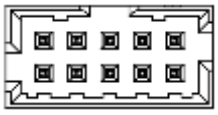
PIN No.	Description
1-2	NORMAL ★
2-3	CLEAR CMOS

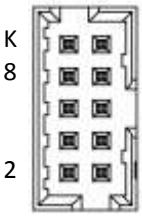


5-4. Pin Define (referring to 5-2 table)

COM3, COM4 & COM6 (Location # 11, 12,13)

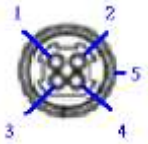
PIN No.	Description	PIN No.	Description
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND	10	KEY





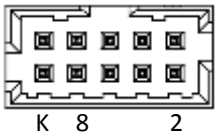
DC_IN3 (Location # 1)

PIN No.	Description
1	+24V
2	+24V
3	GND
4	GND
5	GND



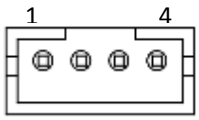
J5 (Location # 9)

PIN No.	Description	PIN No.	Description
1	VCC3	2	SATALED
3	SUSLED#	4	SLP4_L
5	PWRBTN	6	GND
7	VCC3	8	GND
9	GND	10	KEY



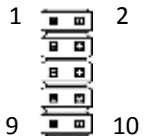
LINE_OUT1 (Location # 23)

PIN No.	Description
1	LOUT_R
2	LOUT_JD
3	GND
4	LOUT_L



LPC1 (Location # 28)

PIN No.	Description	PIN No.	Description
1	CLOCK	2	LAD1
3	PCIRST	4	LAD0
5	LFRAME	6	VCC3
7	LAD3	8	GND
9	LAD2	10	GND

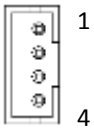


RJ1 Cash Drawer RJ11 connector (Location # 2)

PIN No.	Description
1	GND
2	Data_Out0
3	Data_In0
4	Power
5	Data_Out1
6	GND

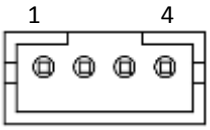
SATA_PWR1; SATA_PWR2 (Location # 29;30)

PIN No.	Description
1	12V
2	GND
3	GND
4	VCC5



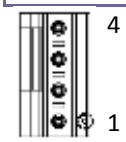
SPK_OUT1 (Location # 24)

PIN No.	Description
1	SPK_R+
2	SPK_R-
3	SPK_L-
4	SPK_L+



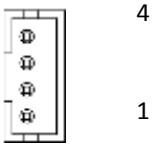
SYS_FAN1 (Location # 22)

PIN No.	Description
1	CTRL
2	SENSE
3	12V
4	GND



USB1,USB2,USB5,USB6 (Location # 14, 15,16,17)

PIN No.	Description
1	USB_PWR
2	USBN
3	USBP
4	GND

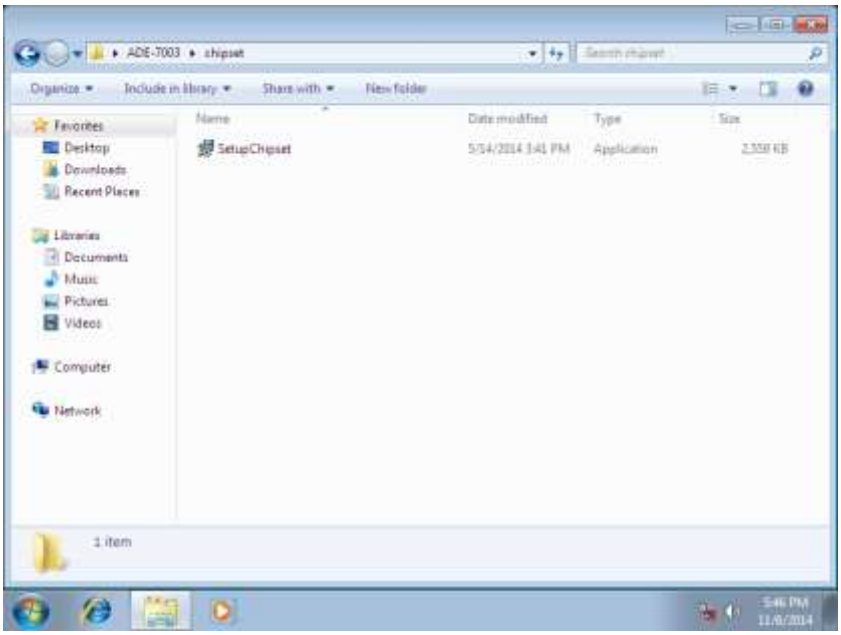


6. *Drivers Installation*

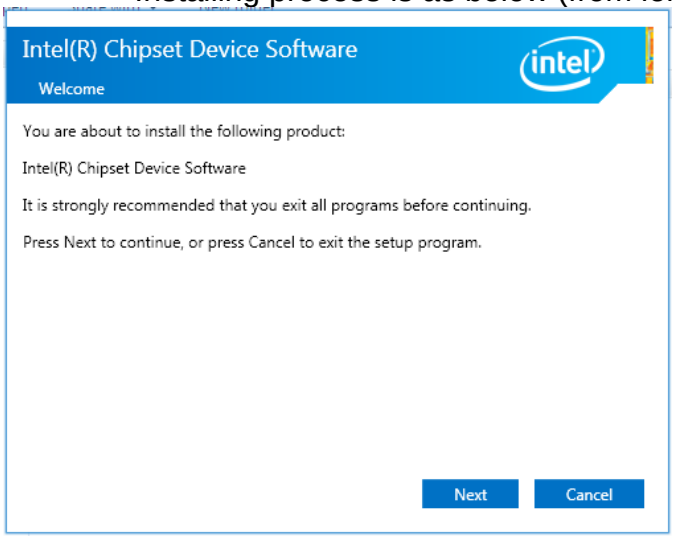
6-1. Installing Windows 7 32bit Device Driver

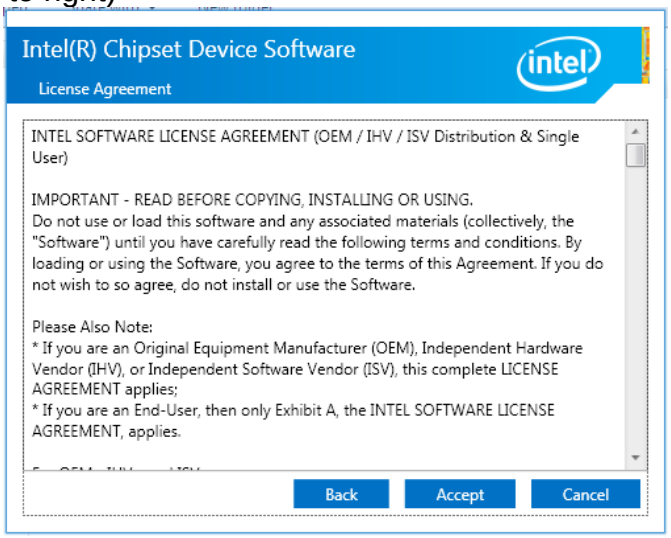
6-1-1.Chipset Driver

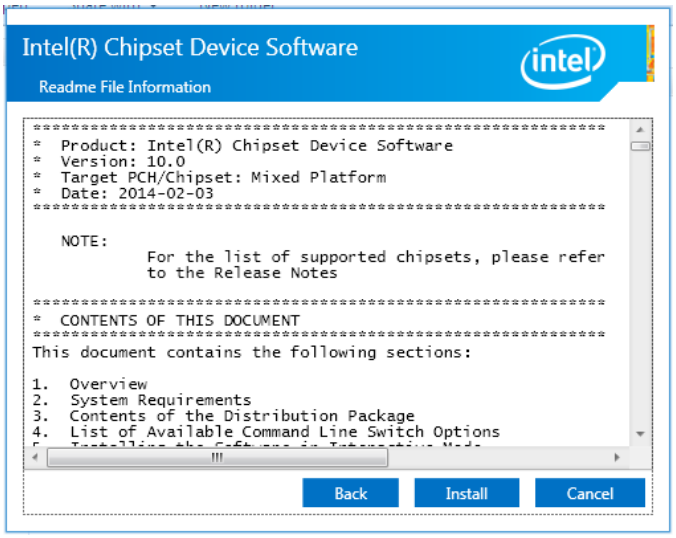
Start chipset driver installing process by clicking file “SetupChipset” of folder “Chipset”.



Installing process is as below (from left to right)






Intel(R) Chipset Device Software
Readme File Information
* Product: Intel(R) Chipset Device Software
* Version: 10.0
* Target PCH/Chipset: Mixed Platform
* Date: 2014-02-03
NOTE:
For the list of supported chipsets, please refer to the Release Notes
* CONTENTS OF THIS DOCUMENT
This document contains the following sections:
1. Overview
2. System Requirements
3. Contents of the Distribution Package
4. List of Available Command Line Switch Options
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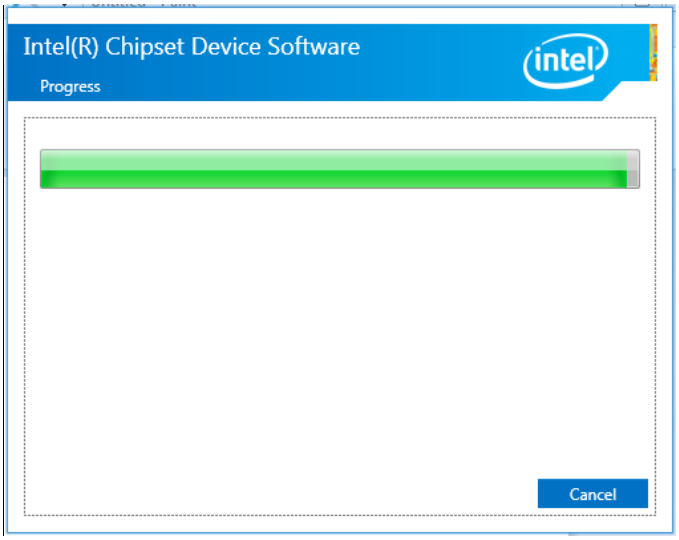
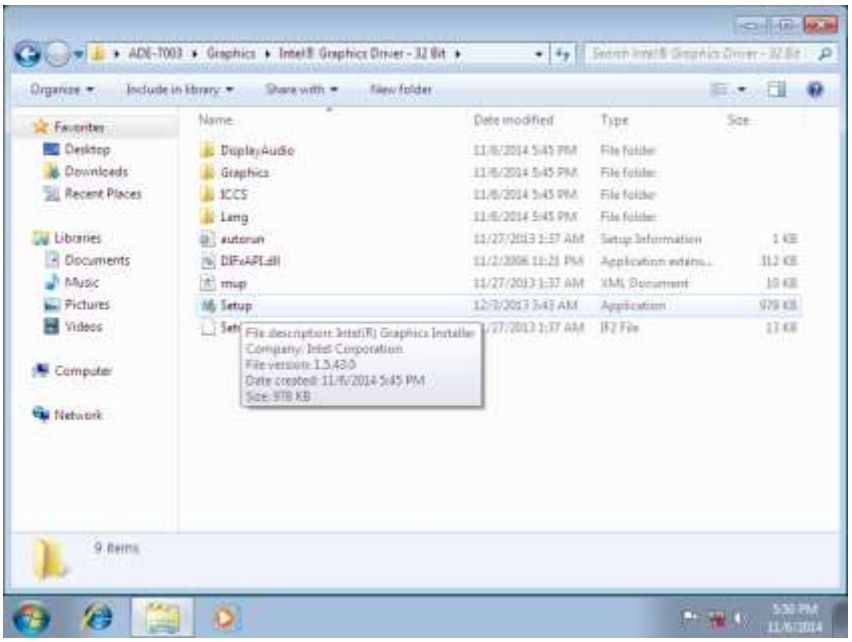
Install
Cancel


Intel(R) Chipset Device Software
Progress
Cancel

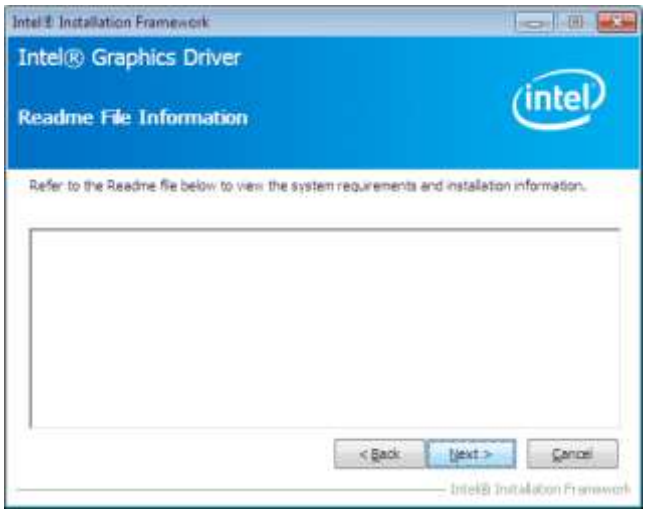
Intel(R) Chipset Device Software
Completion
You have successfully installed the following product:
Intel(R) Chipset Device Software
Press Finish to complete the setup process.
View Log Files
Finish

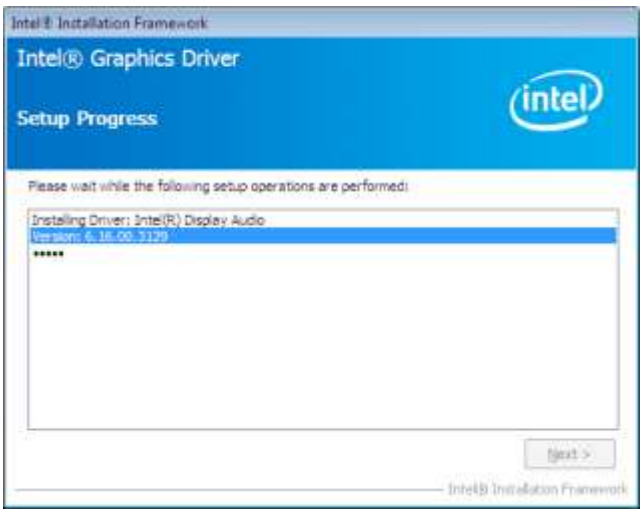
6-1-2. Graphic Driver

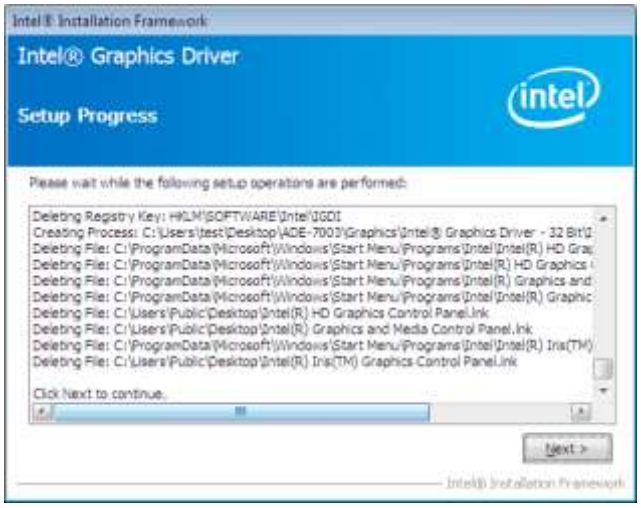
Start graphic driver installing process by clicking file “Setup” of folder “Intel Graphic Driver-32 bit”.

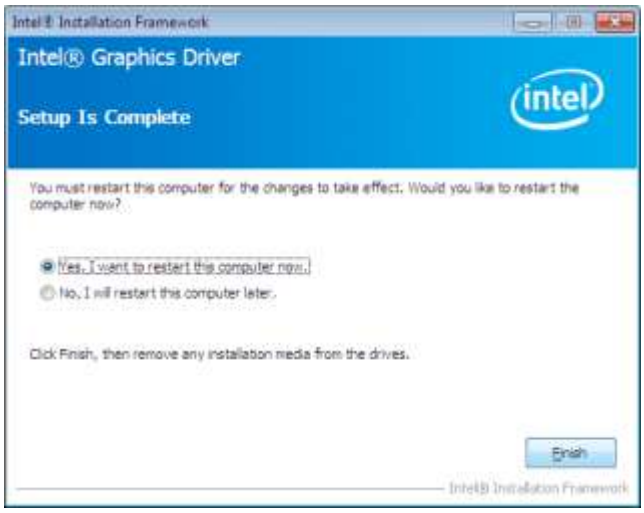


Installing process is as below (from left to right).


Intel® Installation Framework
Intel® Graphics Driver
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
< Back
Next >
Cancel
Intel® Installation Framework

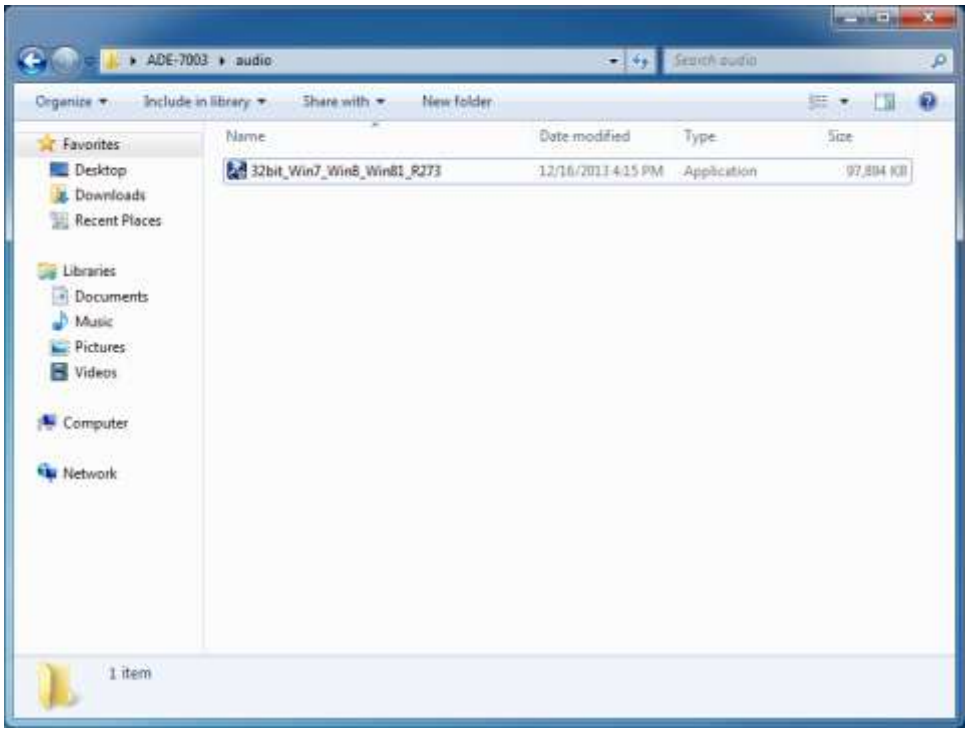

Intel® Installation Framework
Intel® Graphics Driver
Setup Progress
Please wait while the following setup operations are performed:
Installing Driver: Intel(R) Display Audio
Next >
Intel® Installation Framework


Intel® Installation Framework
Intel® Graphics Driver
Setup Progress
Please wait while the following setup operations are performed:
Deleting Registry Key: HKLM\SOFTWARE\Intel\IGDI
Creating Process: C:\Users\test\Desktop\ADE-7003\Graphics\Intel® Graphics Driver - 32 Bit\I
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel\Intel(R) HD Gra
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel(R) HD Graphics
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel(R) Graphics and
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel\Intel(R) Graphic
Deleting File: C:\Users\Public\Desktop\Intel(R) HD Graphics Control Panel.lnk
Deleting File: C:\Users\Public\Desktop\Intel(R) Graphics and Media Control Panel.lnk
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel\Intel(R) Iris(TM)
Deleting File: C:\Users\Public\Desktop\Intel(R) Iris(TM) Graphics Control Panel.lnk
Click Next to continue.
Next >
Intel® Installation Framework

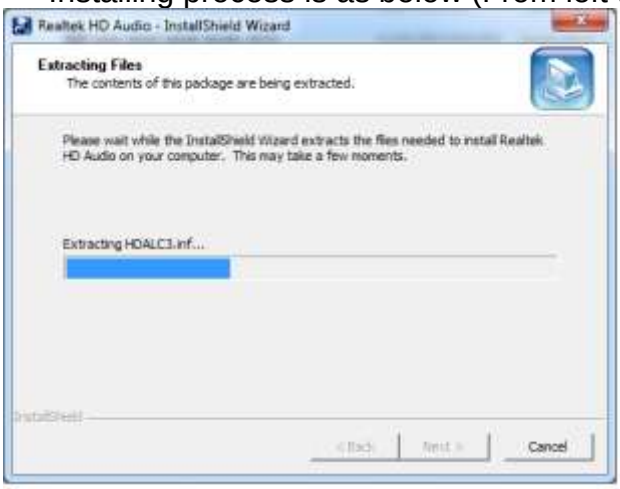

Intel® Installation Framework
Intel® Graphics Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

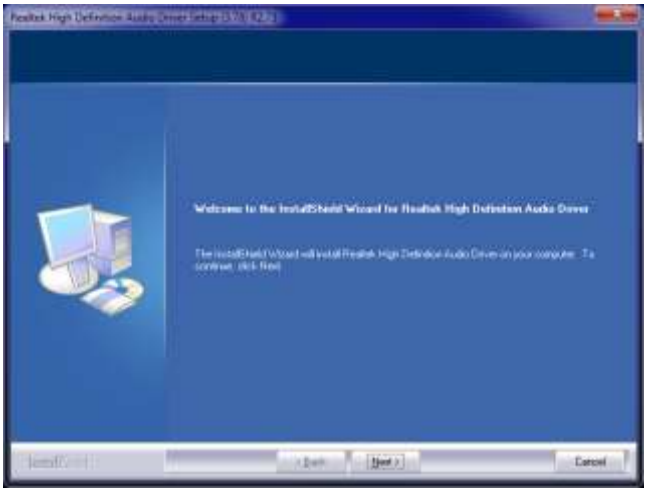
6-1-3. Audio Driver

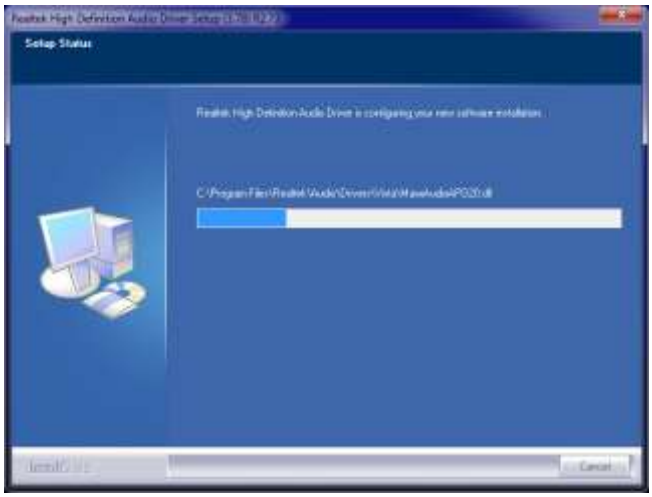
Start audio driver installing process by clicking file “32bit_Win7_Win8_Win81_R273”of folder “audio”.

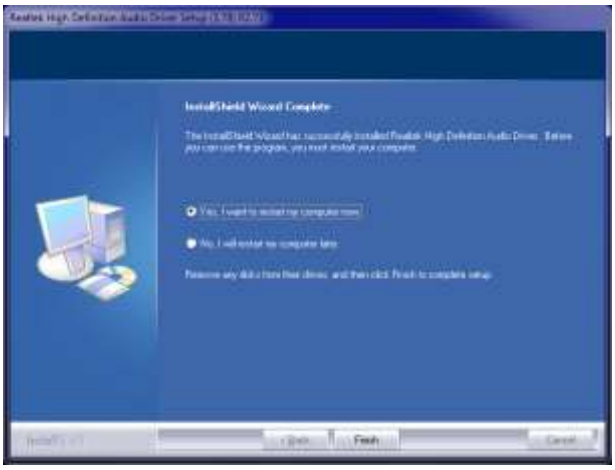


Installing process is as below (From left to right)



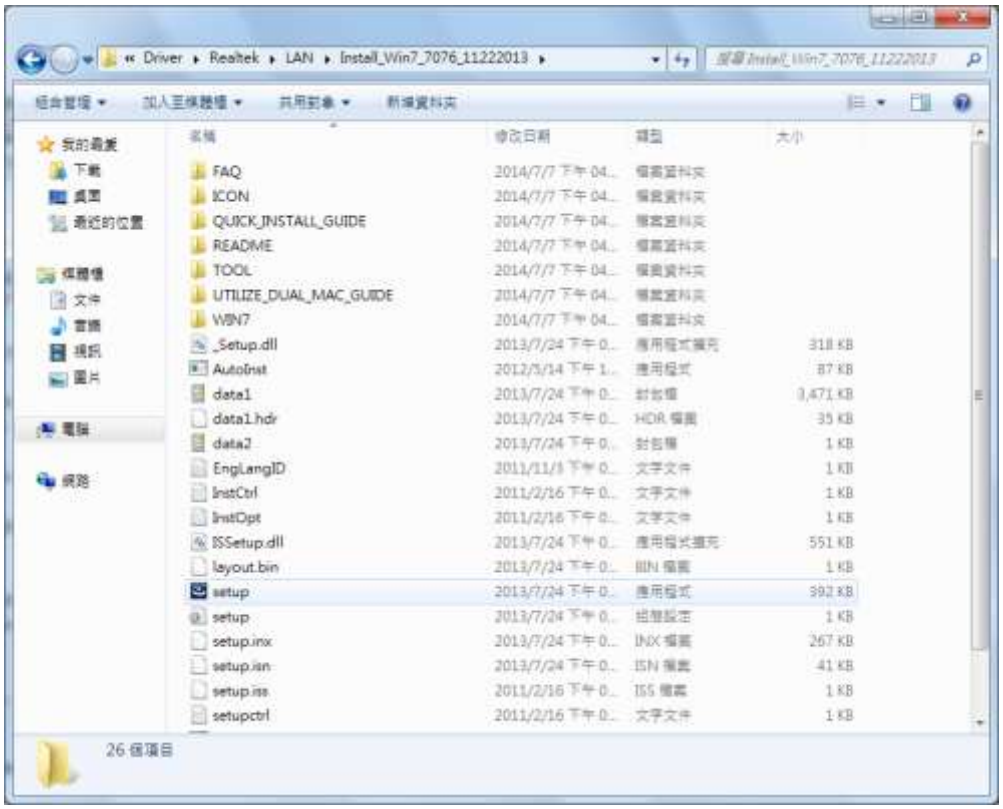

Welcome to the InstallShield Wizard for Realtek High Definition Audio Driver
Cancel


Setup Status

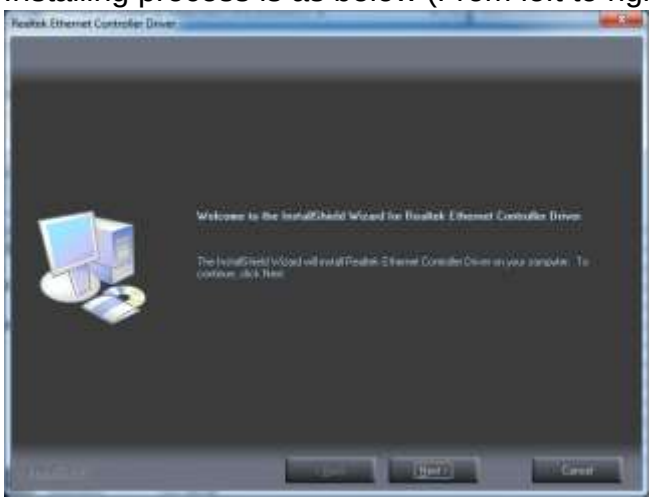

InstallShield Wizard Complete
Finish

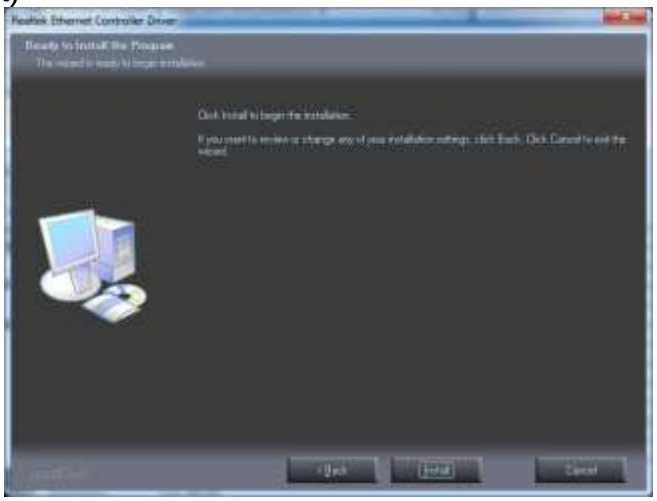
6-1-4. LAN Driver

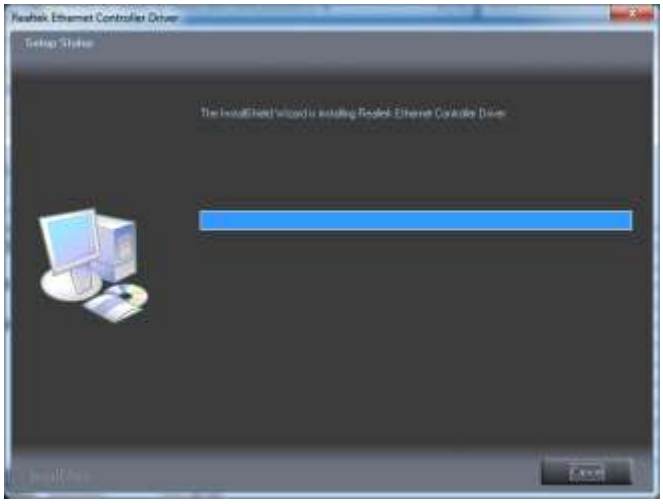
Start LAN driver installing process by clicking file “QUICK_INSTALL_GUIDE” of folder “LAN”.

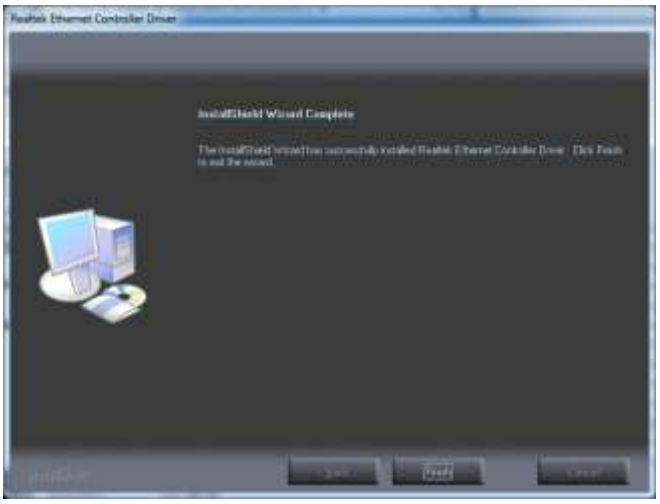


Installing process is as below (From left to right)





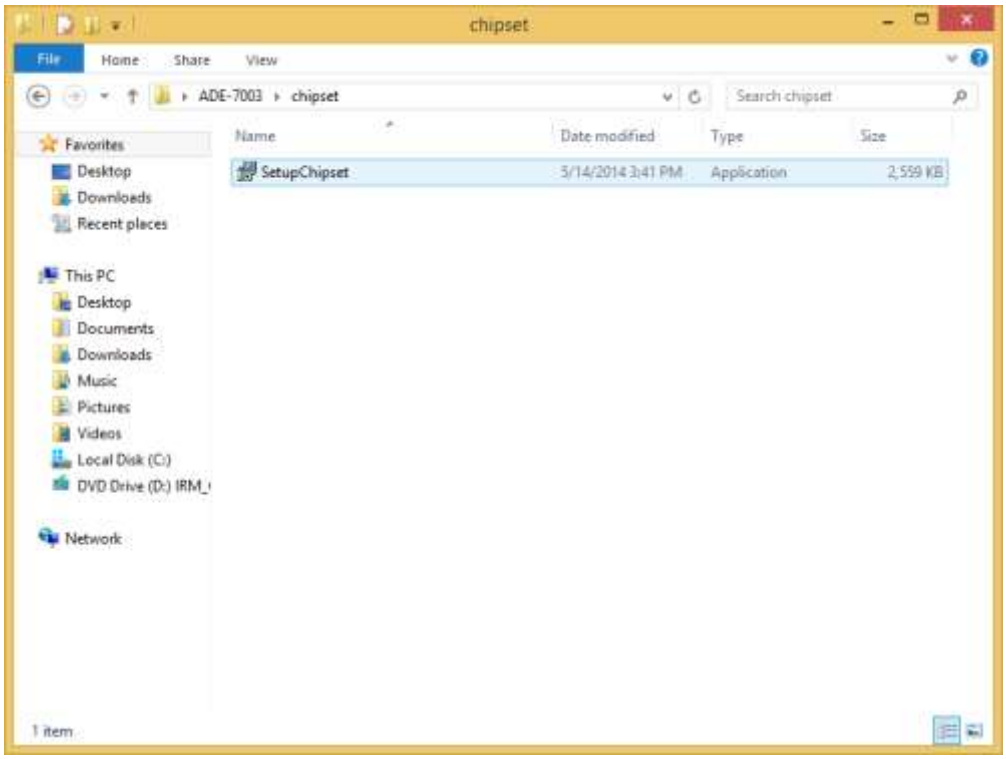

Realtek Ethernet Controller Driver
Setup Status


Realtek Ethernet Controller Driver
InstallShield Wizard Complete

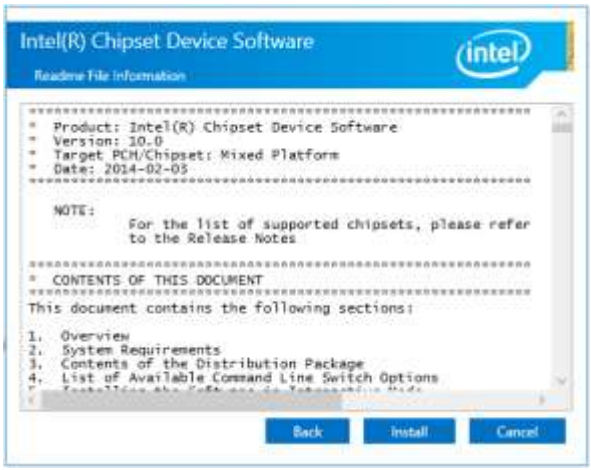
6-2. Installing Windows 8 32bit Device Driver

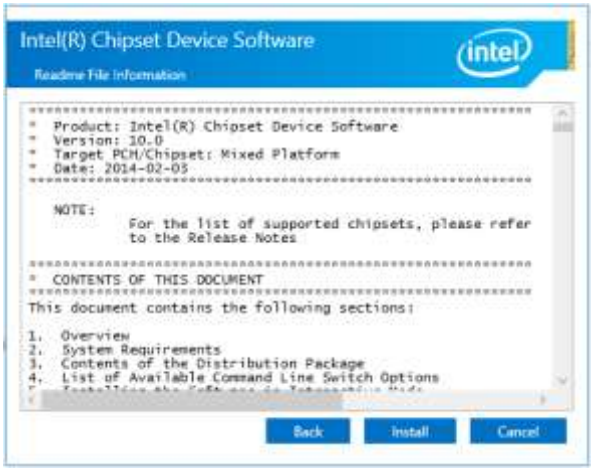
6-2-1.Chipset Driver

Start chipset driver installing process by clicking file “SetupChipset” of folder “Chipset”.



Installing process is as below (From left to right)

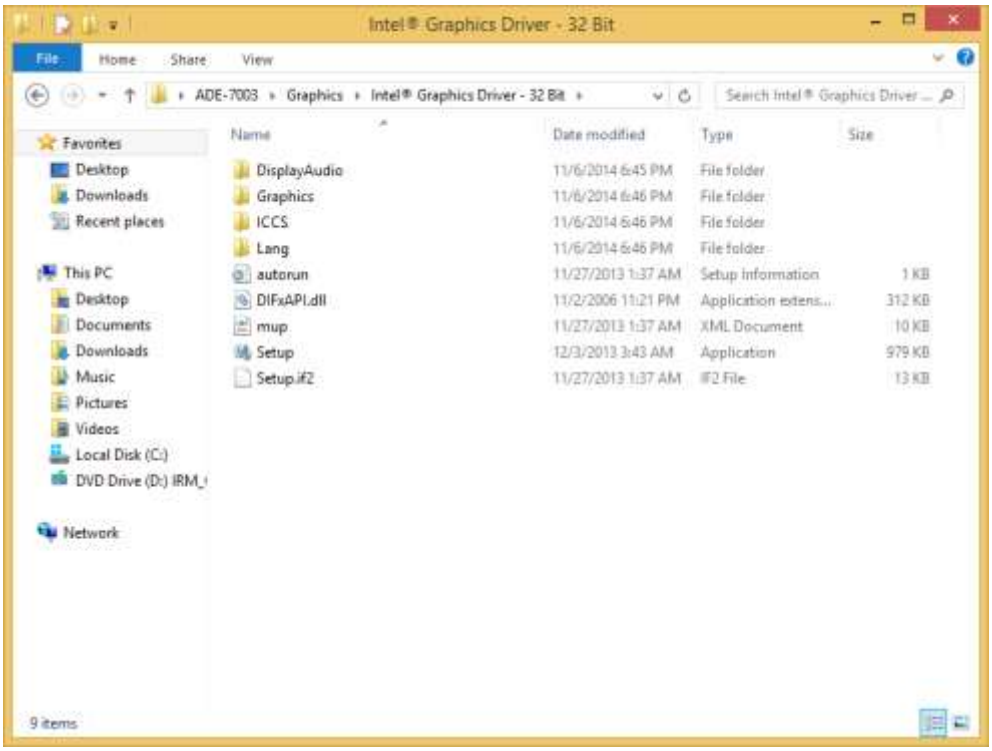

Intel(R) Chipset Device Software
Readme File Information
Product: Intel(R) Chipset Device Software
Version: 10.0
Target PCH/Chipset: Mixed Platform
Date: 2014-02-05
NOTE:
For the list of supported chipsets, please refer to the Release Notes
CONTENTS OF THIS DOCUMENT
This document contains the following sections:
1. Overview
2. System Requirements
3. Contents of the Distribution Package
4. List of Available Command Line Switch Options
Back
Install
Cancel


Intel(R) Chipset Device Software
Readme File Information
Product: Intel(R) Chipset Device Software
Version: 10.0
Target PCH/Chipset: Mixed Platform
Date: 2014-02-05
NOTE:
For the list of supported chipsets, please refer to the Release Notes
CONTENTS OF THIS DOCUMENT
This document contains the following sections:
1. Overview
2. System Requirements
3. Contents of the Distribution Package
4. List of Available Command Line Switch Options
Back
Install
Cancel

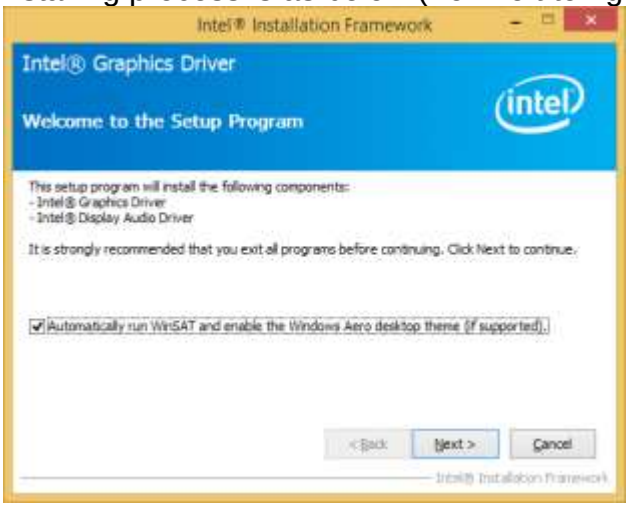
Intel(R) Chipset Device Software
Completion
You have successfully installed the following product:
Intel(R) Chipset Device Software
Press Finish to complete the setup process.
View Log Files
Finish

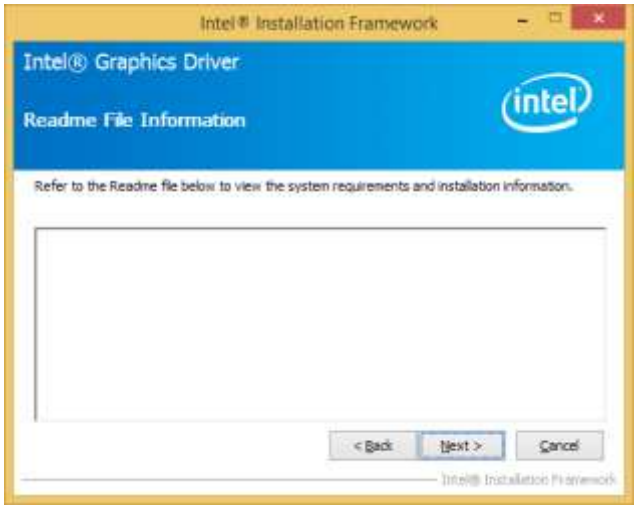
6-2-2. Graphic Driver

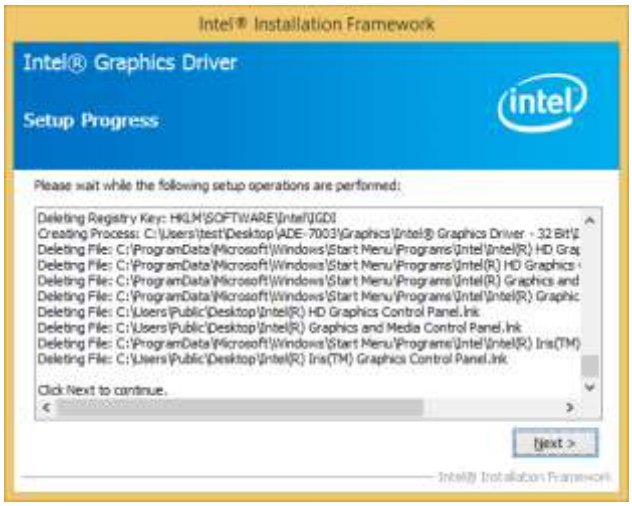
Start graphic driver installing process by clicking file “Setup” of folder “Intel Graphic Driver-32 bit”.

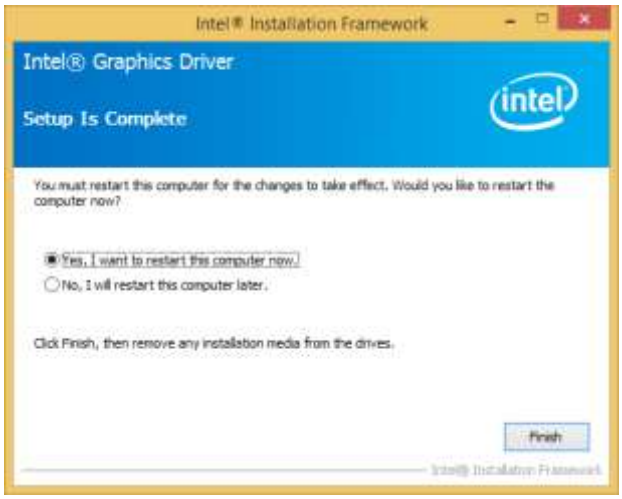


Installing process is as below (from left to right).



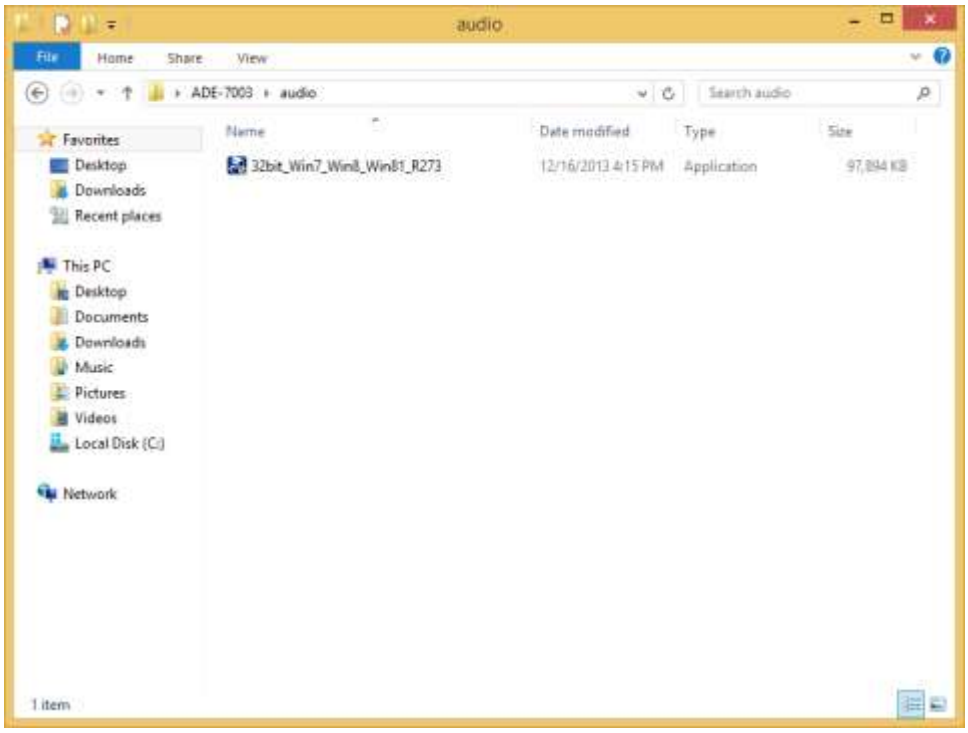

Intel® Installation Framework
Intel® Graphics Driver
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
< Back
Next >
Cancel
Intel® Installation Framework


Intel® Installation Framework
Intel® Graphics Driver
Setup Progress
Please wait while the following setup operations are performed:
Deleting Registry Key: HKLM\SOFTWARE\Intel\IGDI
Creating Process: C:\Users\test\Desktop\ADE-7003\Graphics\Intel® Graphics Driver - 32 Bit\
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel\Intel(R) HD Gra
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel(R) HD Graphics
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel(R) Graphics and
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel\Intel(R) Graphic
Deleting File: C:\Users\Public\Desktop\Intel(R) HD Graphics Control Panel.lnk
Deleting File: C:\Users\Public\Desktop\Intel(R) Graphics and Media Control Panel.lnk
Deleting File: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Intel\Intel(R) Iris(TM)
Deleting File: C:\Users\Public\Desktop\Intel(R) Iris(TM) Graphics Control Panel.lnk
Click Next to continue.
Next >
Intel® Installation Framework

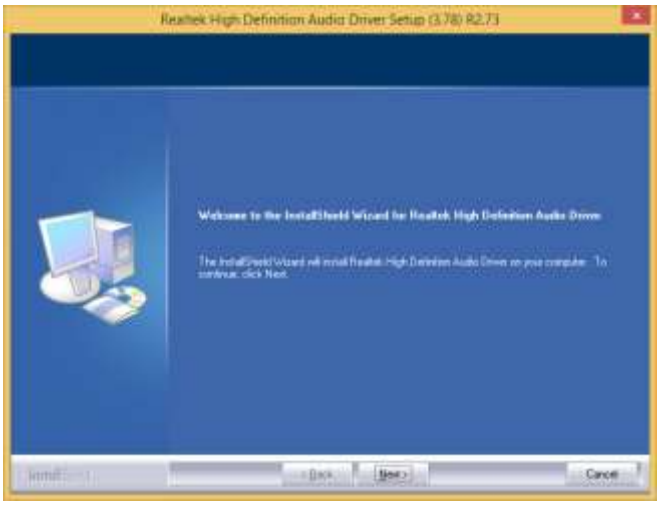

Intel® Installation Framework
Intel® Graphics Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

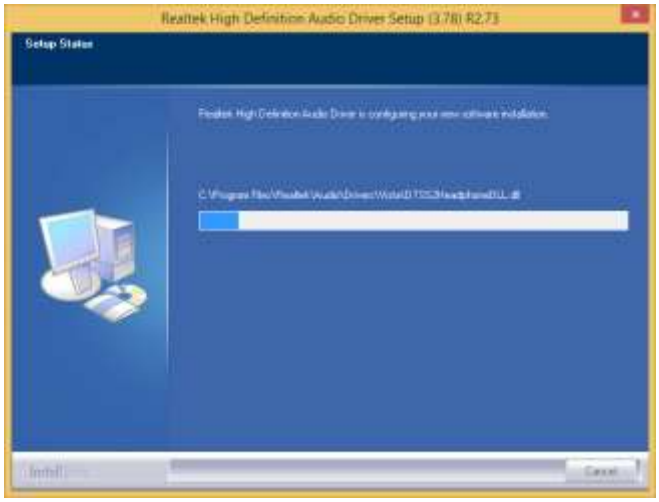
6-2-3. Audio Driver

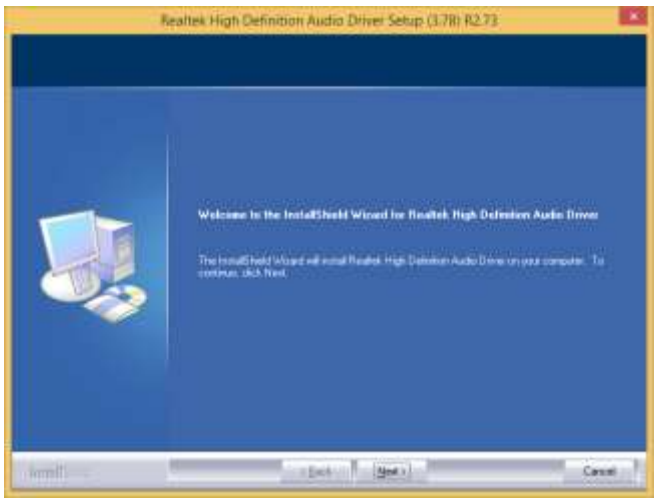
Start audio driver installing process by clicking file “32bit_Win7_Win8_Win81_R273”of folder “audio”.



Installing process is as below (From left to right)



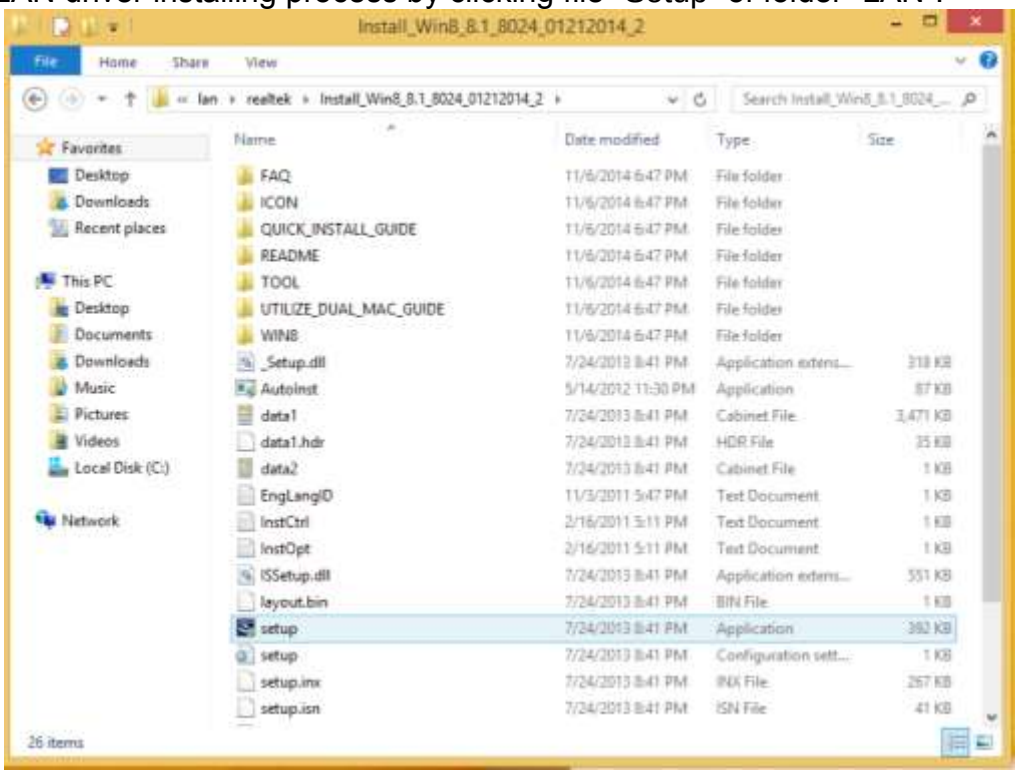

Realtek High Definition Audio Driver Setup (3.78) R2.73
Setup Status
Realtek High Definition Audio Driver is configuring your new software installation.
Cancel


Realtek High Definition Audio Driver Setup (3.78) R2.73
Welcome to the InstallShield Wizard for Realtek High Definition Audio Driver
The InstallShield Wizard will install Realtek High Definition Audio Driver on your computer. To continue, click Next.
< Back
Next >
Cancel

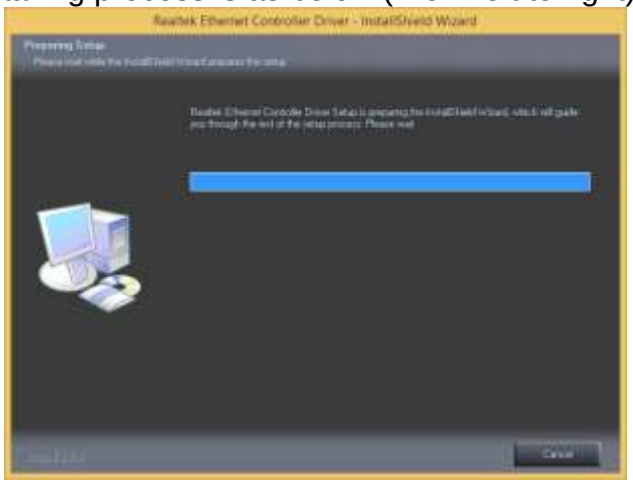
Realtek High Definition Audio Driver Setup (3.78) R2.73
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek High Definition Audio Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

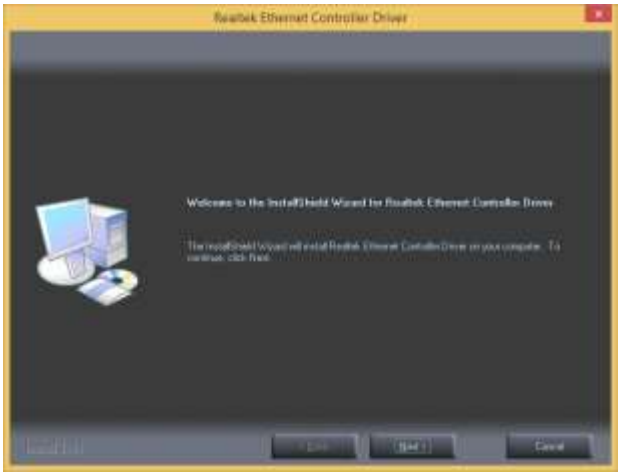
6-2-4. LAN Driver

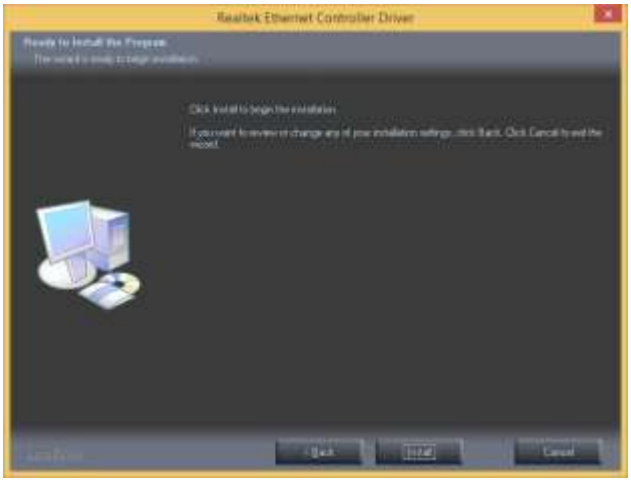
Start LAN driver installing process by clicking file “Setup” of folder “LAN”.

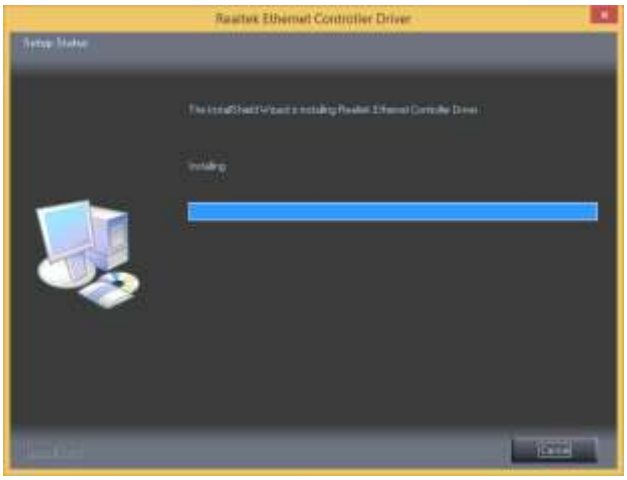


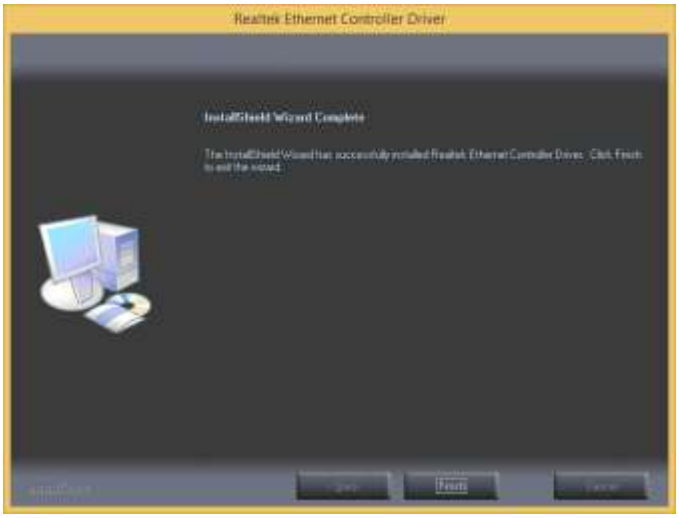
Installing process is as below (From left to right)










Realtek Ethernet Controller Driver
InstallShield Wizard Complete
Finish

Appendix: Drivers Installation

To download 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)