

Embedded Computer

Intel® Pentium® N6415 (1.5M Cache, up to 3.0GHz)



I330EAC-IE3

User Manual

Document Version 1.0 Document Part No. 91521110111T

Please read these instructions carefully before using this product, and save this manual for future use.

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Preface

Copyright Notice

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Trademark Acknowledgement

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Disclaimer

We reserve the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. We assume no responsibility or liability for the use of the described product(s) conveys no license or title under any patent, copyright, or masks work rights to these products, and make no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this manual are for illustration purposes only. We make no representation or guarantee that such application will be suitable for the specified use without further testing or modification.

Warranty

Our warranty guarantees that each of its products will be free from material and workmanship defects for a period of one year from the invoice date. If the customer discovers a defect, we will, at his/her option, repair or replace the defective product at no charge to the customer, provide it is returned during the warranty period of one year, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service. If the serial number and the product shipping data differ by over 30 days, the in-warranty service will be made according to the shipping date. In the serial numbers the third and fourth two digits give the year of manufacture, and the fifth digit means the month (e. g., with A for October, B for November and C for December).

For example, the serial number 1W22Axxxxxx means October of year 2022.

Customer Service

We provide a service guide for any problem by the following steps: First, visit the website of our distributor to find the update information about the product. Second, contact with your distributor, sales representative, or our customer service center for technical support if you need additional assistance.

You may need the following information ready before you call:

- Product serial number
- Software (OS, version, application software, etc.)
- Description of complete problem
- The exact wording of any error messages

In addition, free technical support is available from our engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products.

Advisory Conventions

Four types of advisories are used throughout the user manual to provide helpful information or to alert you to the potential for hardware damage or personal injury. These are Notes, Important, Cautions, and Warnings. The following is an example of each type of advisory.



Note:

A note is used to emphasize helpful information



Important:

An important note indicates information that is important for you to know.



Caution A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.

Attention Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème potentiel.



Warning! An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem.

Avertissement! Un Avertissement de Choc Électrique indique le potentiel de chocs sur des emplacements électriques et comment éviter ces problèmes.



Alternating Current The Protective Conductor Terminal (Earth Ground) symbol indicates the potential risk of serious electrical shock due to improper grounding. **Mise à le terre !** Le symbole de Mise à Terre indique le risqué potential de choc électrique grave à la terre incorrecte.

Safety Information

Warning! Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Avertissement! Toujours débrancher le cordon d'alimentation du chassis lorsque vous travaillez sur celui-ci. Ne pas brancher de connections lorsque l'alimentation est présente. Des composantes électroniques sensibles peuvent être endommagées par des sauts d'alimentation. Seulement du personnel expérimenté devrait ouvrir ces chassis.



Caution Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Attention Toujours verifier votre mise à la terre afin d'éliminer toute charge statique avant de toucher la carte CPU. Les équipements électroniques moderns sont très sensibles aux décharges d'électricité statique. Toujours utiliser un bracelet de mise à la terre comme précaution. Placer toutes les composantes électroniques sur une surface conçue pour dissiper les charge, ou dans un sac anti-statique lorsqu'elles ne sont pas dans le chassis.

Important Information

Federal Communications Commission Radio Frequency Interface Statement



This device complies with part 15 FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class "B" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference at him own expense.

EC Declaration of Conformity



This equipment is in conformity with the requirement of the following EU legislations and harmonized standards. Product also complies with the Council directions.

Electromagnetic Compatibility Directive (2014/30/EU)

- EN55024: 2010 EN 55022: 2010 Class B
 - o IEC61000-4-2: 2009
 - o IEC61000-4-3: 2006+A1: 2007+A2: 2010
 - o IEC61000-4-4: 2012
 - o IEC61000-4-5: 2014
 - o IEC61000-4-6: 2013
 - o IEC61000-4-8: 2010
 - o IEC61000-4-11: 2004
- EN55022: 2010/AC:2011
- EN61000-3-2:2014
- EN61000-3-3:2013

Low Voltage Directive (2014/35/EU)

• EN 60950-1:2006/A11:2009/A1:2010/A12:2011/ A2:2013

Chapter 1: Introduction

Congratulations on purchasing Winmate® EAC IE3 Embedded Computer. EAC IE3 Intel® Pentium® N6415 offers suitable for Factory Automation, Machine Vision, Surveillance, and Machine Automation.

1.1 Features

Winmate® I330EAC-IE3 Embedded Computer offers the following features:

- Intel® Pentium® N6415
- RAM 4G DDR4L (Up to 32G)
- SSD 256GB (Up to 512TB)
- Isolation Power Protection

1.2 Package Contents

Carefully remove the box and unpack your device. Please check if all the items listed below are inside your package. If any of these items are missing or damaged contact us immediately.

Standard factory shipment list:



1.3 Product Overview

Front Side I/O Connectors



N⁰	Description	Nº	Description
1	NMEA Port 0183	2	Digital IO

Rear Side I/O Connectors



Nº	Description	Nº	Description
1	COM	2	Power Input
3	COM	4	Power Switch
6	LAN	6	HDMI
0	USB Type-A		

Chapter 2: Hardware Installation

2.1 Mounting

I330EAC-IE3 Embedded Computer supports table mounting.

Mounting Instruction:

- 1. Fasten screws to secure L-shape mounting brackets to the I330EAC-IE3.
- 2. Insert the I330EAC-IE3 into the fixture (ex. rack) and fasten screws to secure the unit.



2.2 Connecting the Power

The DC power supply connector of the I330EAC- IE3 Embedded Computer is on the front panel.

Warning!

Warning!

Ensure voltage and polarity is compliant with the DC input. Improper input voltage or polarity can cause system damage.

Avertissement! Assurez-vous que la tension et la polarité sont conformes à l'entrée CC. Une tension d'entrée ou une polarité incorrecte peut endommager le système.



Connect the I330EAC-IE3 either to AC power or DC power. Do not perform both connections at the same time.

Avertissement! Connectez l'I330EAC-IE3 à une alimentation CA ou CC. N'effectuez pas les deux connexions en même temps.

Connecting to DC Power

Connect open wire cable (not supplied by Winmate) to 9-36V DC, maximum power source 220W.

Chapter 3: Operating the Device

3.1 How to Enable Watchdog

Download Winmate Watchdog utility to enable Watchdog. Find more information in "Watchdog Guide" that you can download from Download Center.

To enable watchdog in Watchdog AP follow the instructions below:

- 1. On the right bottom side of the desktop screen, click triangle button to show hidden icons.
- 2. Click ^W icon to open Watchdog utility.



3. Set countdown time and periodically feed time, or disable watchdog.



Example:

Every 10 min watchdog will monitor the system, in case any error occurs the system will restart automatically when the countdown time reaches 0.

Every 9 min watchdog timer will be reset to 10 min.

Setting	Description
Watchdog Countdown Time	The system automaticity restarts when this countdown time reaches zero. <i>Default: 10 min</i>
Periodically Feed Time	To set a cycle time to automatically reset watchdog timer. <i>Default: 9 min</i>
Enable / Disable	Enable or disable watchdog. Default: Enable

3.2 S4 Wake on LAN

In Windows 10 OS shutdown settings will not have Hibernate mode if your storage capacity is below 32 GB.



Caution Check if your system storage capacity is 32 GB before entering Hibernation mode. **Attention** Vérifiez si la capacité de stockage de votre système est de 32 Go avant de passer en mode Veille prolongée.

Storage capacity below 32 GB:

🎾 System Settings		-	×
← → → ↑ 🝞 > Control Panel > Hardware and Sound > Power Options > System Settings	~ Ü	Search Control Panel	٩
Define power buttons and turn on password protection Choose the power settings that you want to your computer. The changes you make to the settings on this age apply to all of your power plants. Coord Coord When I press the power button: Step Coord Coord C			
Save changes Cancel			

Storage capacity above 32 GB

😵 System Settings		-	×
← → ▼ ↑ 🍞 > Control Panel > All Control Panel Items > Power Options > System Settings	~ Ū	Search Control Panel	P
 ← → · · ↑ P · · · · · · · · · · · · · · · ·	v 0	Search Control Panel	Q
Save changes Cancel			

3.3 Changing Serial Port Settings

You can change serial port settings in BIOS.

To change serial port settings:

- 1. To enter the BIOS setup connect an external USB keyboard, external monitor and quickly press **Del** key when the prompt appears on the screen during start up.
- 2. In BIOS go to Advanced > S10 F81968 Configuration.

	InsydeH	20 Setup Utility	Rev. 5.0
Main Advanced Security Power	Boot Exit		
<pre>>CPU Configuration PPower & Performance >System Agent (SA) Configuration PPCH-TW Configuration >Console Redirection >S10 F81968</pre>			S10 F81968 Configuration
F1 Help f Esc Exit e	/↓ Select Item /→ Select Item	F5/F6 Change Values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit

3. Click to UART Port 1 Configuration.

		Insyde	H2O Setup Utility		Rev. 5.0
Advanced					
F81968 Chip 1 1/0 Configuration Port FUART Port 1 Configuration FUART Port 2 Configuration FUART Port 3 Configuration		4Eh/4Fh		UART Configuration	
HART Port 5 Configuration HUART Port 6 Configuration HHardware Honitor Watch-Dog Timer FGP10 Group 0 Configuration FGP10 Group 7 Configuration		<always off=""></always>			
F1 Help Esc Evit	1/1 Select	Item	F5/F6 Change Values	F9 Setup Defaults F10 Save and Exit	
LOC LATE		1.00			

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Advanced	Insyd	eH2O Setup Utility	Rev. 5.0
UART Port 1 Configuration		(Configure UART Port using options :
	e Europe I and a		[Uisabled] Uisable device
Daki Port I	<enabled></enabled>		LENADIEDI ENADIE DEVICE AND USE
Dase 170 Houress	< ID045		Jeruw settings
Perinberal Type	<tru42 (DC0305)</tru42 		
Clock Source	<1 8/32 MH=>		
CIUCK SUULCE	<1.0432 mil2>		
F1 Help	t/↓ Select Item	F5/F6 Change Values	F9 Setup Defaults
Fee Exit	the Soloct Itom	Enter Select & SubMonu	E10 Savo and Exit

4. Change Setting from UART mode to RS232/422/485.

<u> </u>	lr	nsydeH20 Setup Utility	Rev. 5.0
Advanced			
UART Port 1 Configuration		с	Choose Port Mode
UART Port 1 Base 1/0 Address Interrupt Peripheral Type Clock Source	<enabled> <3F8h> <1R0d> <r3232> <1.8432 H</r3232></enabled>	Iz> Peripheral Type Rs232 Rs422 Rs485	
F1 Help Esc Exit	1/↓ Select Item +/→ Select Item	F5/F6 Change Values Enter Select ▶ SubMenu	F9 Setup Defaults F10 Save and Exit

5. Exit BIOS utility.

3.4 Using Recovery Wizard to Restore Computer

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I	_	L
l		

Note: Before starting the recovery process, make sure to backup all user data. The data will be lost after the recovery process.



Important: Before starting the recovery process, remove the PCI/ PCIe card and CFast card.

To enable quick one-key recovery procedure:

- 1. Connect the computer to the power source. Make sure the computer stays plugged in to power source during the recovery process.
- 2. Turn on the computer, and when the boot screen shows up, press **Tab+ F6** to initiate the Recovery Wizard.
- 3. The following screen shows the Recovery Wizard. Click **Recovery** button to continue.

Recovery Wizard			
Click " Recovery " to restore your s warning! The process will clear all of your	system. data.		
If you do not want to restore your s reboot.	ystem please press Recovery	Quit " to	

4. A warning message about data loss will show up. Make sure the data is backed up before recovery, and click **Yes** to continue.



Wait the recovery process to complete. During the recovery process, a command prompt will show up to indicate the percent of recovery process complete. The system will restart automatically after recovery completed.

Chapter 4: Driver Installation

This chapter contains driver installation guide. Follow the instructions below to complete the installation. You will quickly complete the installation. This chapter provides instructions on how to install drivers on the I330EAC-IE3 Box PC.

4.1 Chipset Driver

Follow instructions below to install Chipset driver.

1. Open the Driver CD (included in the package) and select Chipset driver.



2. Installation window will pop up, select Next.

Intel(R) Chipset Device Software Welcome	(intel)
You are about to install the following product: Intel(R) Chipset Device Software It is strongly recommended that you exit all programs before continu Press Next to continue, or press Cancel to exit the setup program.	ing.
Next	Cancel

3. Select Accept to agree with the terms of license agreement.



4. Check the ReadMe file information, select Install to continue.

Intel(R) Chipset Device Software	(intel)
Completion	
You have successfully installed the following product:	
Intel(R) Chipset Device Software	
You must restart this computer for the changes to take effect.	
View Log Files	
Restart Now	Restart Later

5. Wait for the driver to be installed. When installation completed, select **Restart Now** to restart your computer.



4.2 Graphic Driver

Follow instructions below to install Graphic driver.

1. Open the Driver CD (included in the package) and select **Graphic** driver.

· · · · · · · · · · · · · · · · · · ·		· ·	/			
📕 🔄 🛄 🖛	Application Tools win64_2	23.20.16.4973			- 0	\times
File Home Share View	/ Manage					~ 🔞
Pin to Quick copy Paste Paste	path shortcut Move Copy to to to	te Rename New folder	y access • Properties • Histor	Select all Select none y Invert selection	'n	
Clipboard	Organize	New	Open	Select		
← → ~ ↑ 📙 > RDVD (D:) ;	Driver > Graphics > win64_2	23.20.16.4973		✓ Õ S	earch win64_23.20.16.4973	,p
Name	^	Date modified	Type Size			
🖈 Quick access	-64 00 00 16 4070	1/0/2010 4:20 454	Application 224.1	106 KD		
Desktop 🖈 🖬	no4_23.20.10.4973	1/9/2016 4:56 AM	Application 524,	120 KB		
👆 Downloads 🛛 🖈						
😭 Documents 🛛 🖈						
Note: Pictures 🖈						
IntelNic						
a OneDrive						
This DC						
- Inis PC						
RDVD (D:)						
Driver						
ight Network						
1 item 1 item selected 316 MB						
🖪 🔎 🗆 🎻	(11)			^ 1	4:41 AM イミン ディング 18	2

2. Installation window will pop up, select Next.

Intel(R) Graphics Driver So	ftware - InstallShield Wizard	>
	Driver Version: 23.20.16.4901 Release Version: Production Version Build Date: December 21, 2017 Platforms: 6th Gen Intel(R) Core(TM) processor family (codename Skylake) 7th Gen Intel(R) Core(TM) processor family (codename Kaby Lake) 8th Gen Intel(R) Core(TM) processor family (codename Coffee Lake) Apollo Lake GeminI Lake Operating System(s): Microsoft Windows* 10-64 - Aniversary Update Microsoft Windows* 10-64 - Creators Update Microsoft Windows* 10-64 - Fall Creators Update Microsoft Windows* 10-64 - Fall Creators Update CONTENTS I. Product Support II. Installation Information	*
	< Back Next > Ca	ncel

3. Select Accept to agree with the terms of license agreement.



4. Check the ReadMe file information, select Next to continue.

eadme File Information		6	nte
eddine the monitoritation		C	
Refer to the Readme file below to view th	e system requirements and installa	tion inform	ation.
Deixer Version: 22 20 16 4001			
Release Version: 23.20.16.4901			1
Build Date: December 21, 2017			
Platforms: 6th Gen Intel(R) Core(TM) processor fam	ilv (codename Skylake)		
Platforms: 6th Gen Intel(R) Core(TM) processor fam 7th Gen Intel(R) Core(TM) processor fam	ily (codename Skylake) ily (codename Kaby Lake)		
Platforms: 6th Gen Intel(R) Core(TM) processor fam 7th Gen Intel(R) Core(TM) processor fam 8th Gen Intel(R) Core(TM) processor fam	ily (codename Skylake) ily (codename Kaby Lake) ily (codename Coffee Lake)		
Platforms: 6th Gen Intel(R) Core(TM) processor fam 7th Gen Intel(R) Core(TM) processor fam 8th Gen Intel(R) Core(TM) processor fam Apollo Lake GeminI Lake	ily (codename Skylake) ily (codename Kaby Lake) ily (codename Coffee Lake)		
Platforms: 6th Gen Intel(R) Core(TM) processor fam 7th Gen Intel(R) Core(TM) processor fam 8th Gen Intel(R) Core(TM) processor fam Apollo Lake GeminI Lake	ily (codename Skylake) ily (codename Kaby Lake) ily (codename Coffee Lake)		
Platforms: 6th Gen Intel(R) Core(TM) processor fam 7th Gen Intel(R) Core(TM) processor fam 8th Gen Intel(R) Core(TM) processor fam Apollo Lake GeminI Lake Operating System(s):	ily (codename Skylake) ily (codename Kaby Lake) ily (codename Coffee Lake)		

5. Wait for the driver to be installed.

ntel® Graphics Driver	
etup Progress	(intel.
Please wait while the following setup operations are performed	formed:
Instaining Univer: Intel(K) Display Audio Version: 10.24.00.01	>
	Next >

6. Select Next to continue.

ntel® Graphics Driver	
etup Progress	(intel
Please wait while the following setup operations are per	formed:
Deleting File: C:\ProgramData\Microsoft\Windows\Start	t Menu\Programs\Intel(R) Graphics and 🖌
Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \Users \Public \Desktop \Intel(R) HD Grap Deleting File: C: \Users \Public \Desktop \Intel(R) Graphics Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \Users \Public \Desktop \Intel(R) Iris(R) G Deleting Registry Key: HKLM\SOFTWARE \Intel\GFX \Int Deleting Registry Key: HKLM\SOFTWARE \Intel\GFX \Int	t Menu \Programs \Intel \Intel (R) Graphic hics Control Panel.Ink s and Media Control Panel.Ink t Menu \Programs \Intel \Intel (R) Iris (R) (C t Menu \Programs \Intel (R) Iris (R) Graph iraphics Control Panel.Ink s(R) Graphics Control Panel.Ink ernal \AudioFix ernal \AudioFix
Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \Users \Public \Desktop \Intel(R) HD Grap Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \ProgramData \Microsoft\Windows \Start Deleting File: C: \Users \Public \Desktop \Intel(R) Iris(R) G Deleting File: C: \Users \Public \Desktop \Intel(R) Iris(R) G Deleting File: C: \Users \Public \Desktop \Intel\R) Iris(R) G Deleting Registry Key: HKLM\SOFTWARE \Intel\GFX \Int Deleting Registry Key: HKLM\SOFTWARE \Intel\GFX \Int Click Next to continue.	t Menu \Programs \Intel \Intel (R) Graphic hics Control Panel.Ink s and Media Control Panel.Ink t Menu \Programs \Intel \Intel (R) Iris (R) (C Menu \Programs \Intel (R) Iris (R) Graph iraphics Control Panel.Ink s(R) Graphics Control Panel.Ink ernal \AudioFix ernal \AudioFix

7. After installation is completed, select "Yes, I want to restart this computer now", and click Finish.



4.3 Management Engine (ME)

Follow instructions below to install Management Engine (ME).

1. Open the Driver CD (included in the package) and select **ME** driver.

III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Application Tool	ME Software In	staller			- 0	×
Ain to Quick Copy Paste access Clipboard	K Cut Move	to • X Delete • to • P Rename Organize	New folder New	Properties	Dopen • Edit History	Select all Select none Invert selection Select	n
← → ~ ↑ □ « Ⅰ	ntel Management Engine Driver	(Ka > ME Softwa	re Installer	5 v	Search ME S	oftware Installer	P
🖈 Quick access	Name		Date modified	d Ty	pe	Size	
Desktop 🖋	IntelMEFWVer.dll		11/21/2017 11	1:12 Ap	oplication exte	ns 21 KE	3
🕹 Downloads 🚿	M SetupME		11/21/2017 11	1:30 Ar	oplication	28 KB	3
Pictures IntelNic IntelNic This PC RDVD (D:)	, Si D	rpe: Application ze: 73.3 MB ate modified: 11/21/	2017 11:31 AM				
Driver							
in Network 💣							
3 items 1 item selected	I 73.3 MB						12 E

2. Select **Next** to start the installation.

Setup		×
Intel® Management Engine Components Welcome	(intel)	
You are about to install the following product:		
Intel® Management Engine Components 11.7.0.1058		
It is strongly recommended that you exit all programs before co Click Next to continue, or click Cancel to exit the setup program	ontinuing. n.	
Intel Corporation	<back next=""></back>	Cancel

3. Select **Next** to agree with the terms of license agreement.

Setup	×
Intel® Management Engine Components License Agreement	
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)	^
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING. Do not use or load software (including drivers) from this site or any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement, which Intel may modify from time to time following reasonable notice to You. If you do not wish to so agree, do not install or use the Software.	
Please Also Note: • If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV) or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies; • If you are an End-User, then only Exhibit A, the INTEL SOFTWARE LICENSE AGREEMENT, applies.	
For OEMs, IHVs and ISVs:	
LICENSE. Subject to the terms of this Agreement, Intel grants to You a nonexclusive,	~
\square I accept the terms in the License Agreement.	
Intel Corporation < Back Next > Can	icel

4. Wait for the driver to be installed.

Setup			
Intel® Management Engine Components Progress		(intel	
Please wait while the product is being installed.			
Intel Corporation	< Back	Next >	Cancel

5. When installation completed, select inish complete installation.



4.4 Audio Driver

Follow instructions below to install Audio driver.

1. Open the Driver CD (included in the package) and select Audio driver.

File Home Shar	Appl e View	lication Tools Manage	Realtek High De	finition Driver 6	4bit V6.	0.1.8036(R281)	- 0	× ^ (3
Pin to Quick Copy Paste access	Cut Copy path Paste shortcut	Move to •	▼ Delete ▼ ■] Rename	New folder New	Prope	Edit Arties History Open	Select all Select none Invert selection Select	1
← → ~ ↑ 📙 « A	udio > Realtek Hig	h Definition Dri	ver 64bit V6.0.1.8	036(R281)	~ 0	5 Search Real	tek High Definitio	Q
	Name	^		Date modifie	d	Туре	Size	
Quick access Desktop	0008-64bit_	Win7_Win8_Wi	n81_Win10_R281	3/26/2017 7:4	3 PM	Application	212,455 KB	Ĺ
🚽 Downloads 💉								
🖹 Documents 🖈								
📰 Pictures 🛛 🖈								
IntelNic								
ConeDrive								
This PC								
RDVD (D:)								
Driver								
💣 Network								
1 item 1 item selected	207 MB							

2. Select Start to continue.

≅ Realtek High Defini Realtek I	ition Audio Driver Setup (4.54) R2.81 High Definition	Audio Driver R2.81		- 0	~
	Realtek High Definition Audio D	ver Setup (4.54) R2.81	×		
		Weckome to the Installishedd Wizard for Realtek High Definition Audio Drive The Installished Unitard will instal Realtek High Definition Audio Driver on your compute contrue, ddd Next.	er 1. To		
	en InstallSifed	< pad (jet s)	Cancel		
<u>م</u>	¢ øj 🖪 🗵		• • • • • • • • • • • • • • • • • • •	8:42 PM 7/2/2018	12

3. When installation completed, select **Finish** complete installation.



4.5 Ethernet Driver

Follow instructions below to install LAN driver.

1. Open the Driver CD (included in the package) and select LAN driver.



2. When compression is complete, select Next.

歸 Intel(R) Network Connections Install Wizard	×
Welcome to the install wizard for Intel(R) Network Connections	(intel)
Installs drivers, Intel(R) Network Connections, and Advand Networking Services.	ed
WARNING: This program is protected by copyright law and international treaties.	ł
< Back Next >	Cancel

3. Read the license agreement, and then select **Next**.

🖟 Intel(R) Network Connections Install	Wizard				×
License Agreement	ment carefully			(inte	D
Flease read the following license agree	ment carerary.			$\overline{}$	
INTEL SOFTWAR	RE LICENSE A	GREEMENT			^
IMPORTANT - READ BEFOR	RE COPYING, IN	ISTALLING	OR USING.		
Do not copy, install, or use this soft (collectively, the "Software") provid ("Agreement") until you have carefu By copying, installing, or otherwise (vare and any a ed under this Illy read the fo using the Soft	associated license agr Ilowing terr ware, you a	materials eement ms and cor	nditions. bound by	
the terms of this Agreement. If you of do not copy, install, or use the Softw	lo not agree to /are.	o the terms	of this Ag	reement,	
LICENSES:					~
• I accept the terms in the license agreen	nent			Print	
○ I do not accept the terms in the license	agreement				
	< Back	Next	t>	Cancel	

4. System displays the installed packages, select **Next**.

🛃 Intel(R) Network Connections Install	Wizard		×
Ready to Install the Program			(intal)
The wizard is ready to begin installation			
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation s	ettings, click Back.	Click Cancel to
	< Back	Install	Cancel

5. Confirm the installation, select **Install** to start the installation.

☆ Intel(R) Network Connections Install	Wizard		×
Ready to Install the Program			(intol)
The wizard is ready to begin installation			linter
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation s	ettings, dick Back. C	lick Cancel to
	< Back	Install	Cancel

6. When installation is completed, select **Finish** to close the window.



4.6 Watchdog Driver

For more details about Winmate Watchdog, please download Watchdog Guide from Winmate Downloads Center.

Follow instructions below to install Watchdog driver.

- 1. Type "cmd" in the run box then the cmd.exe will appear in programs.
- 2. Right click on the cmd.exe and click on "Run as administrator" to start
- 3. Open the Driver CD (included in the package) and select Watchdog driver.



4. When Windows Security dialog appear, select install to continue the Installation.



5. Wait for installation to complete. When installation is complete, press any key to close.



6. Open the Driver CD (included in the package) and select Watchdog AP.



7. Select Next.



8. The installed storage location is displayed, select **Next** to continue.

🛃 WatchDog_AP Setup	—		×
Select Installation Folder			
This is the folder where WatchDog_AP will be installed.			2
To install in this folder, click "Next". To install to a different folder, ent "Browse".	er it be	low or clie	dk
Folder:		0	
C: Program Files (xoo) (watchbog_AP (watchbog_AP (browse.	
Advanced Installer			
< Back Next >		Can	cel

9. Select **Next** to start the installation.

🛃 WatchDog_AP Setup	×
Ready to Install The Setup Wizard is ready to begin the WatchDog_AP installation	2
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.	
Advanced Installer 	ncel

10. When installation is completed, select **Finish** to close the window.



Appendix

Appendix A: Hardware Specifications

Model Name					
I330EAC-IE3					
	Processor	Intel® Pentium® N6415 (1.5M Cache, up to 3.0GHz)			
	Memory	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) 16GB (Optional)			
System Specification	Storage	1 x M.2 2242 Bkey SSD 256GB 512GB (Optional)			
	Ethernet Controller	2 x Intel® Ethernet Controller			
	Security	TPM 2.0			
	Operating System	Windows 11 IoT Enterprise SAC (64 bit) (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 22.04 (Optional)			
	USB Port	2 x USB3.2 Gen1x1 (TypeA)			
	Serial Port	3 x RS232			
IO Dorto	Video	1 x HDMI 2.0 (Optional)			
IO Ports	LAN	2 x RJ4510/100/1000 Mbps			
	DIDO	8 x DIDO			
	NMEA 0183	4 x NMEA 0183			
Power	Power Input	24V DC-in with Isolation (Approval by Certificate) 9~36V DC Input Acceptable			
	Dimensions	205 x 170 x 55 mm			
	Weight	1.5 kg			
Mechanical	Mounting	VESA Mount			
	Enclosure	Metal			
	Cooling System	Fanless Design			
	Operating Temperature.	15~55°C			
Environment	Operating Humidity	5% to 95%			
	Shock	15G,11ms duration			
	IP rating	IP66 (Front Side)			
Certification	Certification	CE / FCC			
Control	Button	1 x Power Button			
Accessory	Accessory	Driver CD & User Manual AC to DC Adapter 12V/ 50W Power Cord 3 pin Terminal Block to DC Jack			

Appendix B: System Dimensions



Appendix C: Software Developer Support

You can download drivers and Software Development Kit (SDK) and Drivers from <u>Winmate</u> <u>Download Center</u>.

Winmate Download Center

<u>http://www.winmate.com /</u>>Support > Download Center > Embedded Computing > I330EAC-IE3





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