

IP69K Stainless P Series Panel PC with Conduit Pipe

Intel® Core™ i5 -8265U (6M Cache, 1.6 GHz up to 3.9 GHz)

15"/ 19"/ 21.5"/ 23.8"



Model No. R15IW3S-SPC369-P1 R19IW3S-SPM169-P1 W22IW3S-SPA369-P1 W24IW3S-SPA269-P1

User Manual

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Contents

Preface	4
About This User Manual	7
Chapter 1: Introduction	8
1.1 Overview	8
1.2 Features	8
1.3 Package Content	9
1.4 Product Overview	10
1.5 Physical Buttons	12
1.6 Air Vent Valve	12
1.7 Connector Description	13
Chapter 2: Installation	14
2.1 Mounting	14
2.1.1 VESA Mount	14
2.1.2 Yoke Mount	15
2.2 I/O Cover and Conduit Pipe Installation	15
2.3 Conduit Pipe Removal	17
2.4 Wiring Requirements	17
2.5 Wiring Diagram	18
2.6 Connector Pin Assignments	19
2.6.1 Power Connector	19
2.6.2 HDMI Connector	19
2.6.3 LAN Connector	20
2.6.4 USB Connector	20
2.6.5 Serial Port Connector	20
Chapter 3: Getting Started	21
3.1 Connecting to Power Source	21
3.1.1 Connecting to AC Power Source	21
3.1.2 Connecting to DC Power Source (Optional)	22
3.2 Turning On/ Off the Device	22
3.3 How to Enable Watchdog	23
Chapter 4: Insyde BIOS Setup	24
4.1 How and When to Use BIOS Setup	24
4.2 BIOS Functions	25
4.2.1 Main Menu	25
4.2.2 Advanced	26
4.2.3 Boot	39
4.2.4 Security	42
4.2.5 Power	43
4.2.6 Exit	44

Preface	3
Preface	3

4.3 Using Recovery Wizard to Restore Computer	45
Chapter 5: Driver Installation	46
5.1 Chipset Driver	46
5.2 Graphic Driver	49
5.3 Management Engine (ME)	53
5.4 Audio Driver	55
5.5 Ethernet Driver	57
5.6 Watchdog Driver	60
Chapter 6. Meintenence and Traublachesting	64
Chapter 6: Maintenance and Troubleshooting	64
6.1 Cleaning the Monitor	64
6.1 Cleaning the Monitor 6.2 Basic Troubleshooting	64 64
6.1 Cleaning the Monitor 6.2 Basic Troubleshooting Appendix	64 64 65
6.1 Cleaning the Monitor 6.2 Basic Troubleshooting Appendix Appendix A: Hardware Specifications	64 64 65 65
6.1 Cleaning the Monitor 6.2 Basic Troubleshooting Appendix Appendix A: Hardware Specifications Appendix B: Winmate Software Development Kit	64 64 65 65 67
6.1 Cleaning the Monitor 6.2 Basic Troubleshooting Appendix Appendix A: Hardware Specifications Appendix B: Winmate Software Development Kit Appendix C: Accessories	64 64 65 65 67 67

Preface

FCC 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 in which case the user will be required to correct the interference at him own expense.

European Union

C F

Electromagnetic Compatibility Directive (2014/30/EU)

- EN55024: 2010/ A1: 2015
 - o IEC61000-4-2: 2009
 - o IEC61000-4-3: 2006+A1: 2007+A2: 2010
 - IEC61000-4-4: 2012
 - o IEC61000-4-5: 2014
 - o IEC61000-4-6: 2014
 - IEC61000-4-8: 2010
 - o IEC61000-4-11: 2004
- EN55032: 2012/AC:2013
- 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

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

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Disclaimer

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Warranty

Winmate Inc. 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 1W17Axxxxxx means October of year 2017.

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.





About This User Manual

This User Manual provides information about using the Winmate® IP69K Stainless P Series with Conduit Pipe with Intel® Core[™] i5 -8265U (6M Cache, 1.6 GHz up to 3.9 GHz) processor. This User Manual applies to the IP69K Stainless P Series with Conduit Pipe – R15IW3S-SPC369-P1, R19IW3S-SPM169-P1, W22IW3S-SPA369-P1, and W24IW3S-SPA269-P1.

The documentation set for the IP69K Stainless P Series with Conduit Pipe provides information for specific user needs, and includes:

- User Manual contains detailed description on how to use the Panel PC, its components, features and detailed procedure how to set up the device.
- Quick Start Guide contains simple guide on how to use the Panel PC, its main components and features.



Note:

Some pictures in this guide are samples and can differ from actual product.

Chapter 1: Introduction

1.1 Overview

Congratulations on purchasing Winmate® IP69K Stainless P Series Panel PC.

Winmate P Series Panel PC features with a waterproof conduit pipe for added cable protection. The IP69K series is built to withstand extensive wash downs with corrosion resistance against cleaning agents, especially against close-range high-pressure, high temperature wash downs. The level of protection allows for easy cleaning and sterilization using water with temperatures of up to 80°C and pressure of up to 30 Bar. A custom-built waterproof conduit pipe was also provided for the customer with a cover plate, allowing for an additional layer of protection for the cables.

1.2 Features

The IP69K Stainless P Series Panel PC features:

- 15"/ 19"/ 21.5"/ 23.8" LCD screen with projected capacitive multi-touch
- Intel® Core™ i5 -8265U (6M Cache, 1.6 GHz up to 3.9 GHz)
- Fanless cooling system
- SUS 316 / AISI 316 stainless steel for food and chemical industries
- Full IP69K waterproof enclosure, good corrosion resistance
- A true flat, easy-to-clean front surface with edge-to-edge design
- Waterproof sealed conduit pipe for cable protection
- Supports VESA mount, and optional Yoke mount stand



1.3 Package Content

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.

Factory shipment list:



Part No.91171110910H

2 x EVA Foam

1.4 Product Overview

This section contains mechanical drawing of the IP69K Stainless P Series Panel PC. Notice that this is a simplified drawing and some components are not marked in detail.

Note: Yoke mount stand kit is an optional accessory.

15", R15IW3S-SPC369-P1



19", R19IW3S-SPM169-P1

Unit: mm



Unit: mm



23.8", W24IW3S-SPA269-P1

Unit: mm



1.5 Physical Buttons

The P Series Panel PC has one Power physical button located on the rear side. Press the Power button to power on or power off the device.



1.6 Air Vent Valve

The P Series Panel PC has an air vent valve that has an automatic mechanical system that controls and maintains pressure without the assistance of an operator. The air vent valve is a safety device that discharges air in order to avoid air related problems.



1.7 Connector Description

Terminal interfaces are located under the protection cover on rear side of the panel PC. To access the I/O connectors, please open the protection cover first.





Note: Notice that input and output connectors vary by product size and specifications.

Connector description:

Item	Description
\bigcirc	Power Jack – Provides power to the display, accepts 12 V DC power input.
0	Terminal Block 3 Pin – Provides power to the display, accepts 12 V DC or 9 V DC to 36 V DC power input based on your order.
	HDMI – Transmits and protects copyrighted digital video and audio. Example: An HD tuner to an HD ready TV.
0 ()¢	RS-232/422/485 (Default RS232) – Serial interface connector controls/monitors devices and offers in addition digital inputs/outputs. <i>Example: A printer or scanner to panel PC.</i>
	USB for Touch – Connects USB for touch capabilities. <i>Example: Touch to Display.</i>
	RJ45 – Connects the panel PC device to Ethernet network.

Chapter 2: Installation

Follow this quick installation procedure:

- 1. Mount your panel PC according to your application requirements (VESA mount, Yoke mount).
- 2. Connect all the cables to the panel PC.
- 3. Install I/O protection cover.
- 4. Route cables through waterproof conduit pipe. And then fix the conduit pipe to the panel PC.
- 5. To ensure enclosure rating protection make sure the conduit pipe is firmly fixed and tightened.

2.1 Mounting

The IP69K Stainless P Series Panel PC devices come with different mounting options suitable for most of the industrial and commercial applications.

2.1.1 VESA Mount

The panel PC has VESA mount holes on the rear side. Follow instructions below to mount the unit with VESA Mount bracket (not supplied by Winmate).

Size	VESA Plate Dimensions	Screw Hole Diameter
15", 19"	100 x 100 mm	VESA M4x5 mm
21.5"	100 x 100 mm	VESA M4x6 mm
23.8"	100 x 100 mm	VESA M4x6 mm

Installation Instruction

- 1. Screw VESA bracket to the fixture (ex. swing arm) with four VESA screws.
- 2. Place the device on VESA bracket.



2.1.2 Yoke Mount

Yoke Mount solution allows installing the panel PC on the bracket. Notice that Yoke Mount Stand is an optional accessory available for order from Winmate.

Installation instruction

- 1. Place the panel PC on the bracket stand, aiming screw holes for each other.
- 2. Secure screws to fix the panel PC upon the bracket stand.
- 3. Firmly secure the locking handle to the panel PC.



2.2 I/O Cover and Conduit Pipe Installation

The unit is available with I/O cover and waterproof conduit pipe for connectors and cable protection (required to maintain enclosure protection rating). Conduit pipe is a part of a complete assembly. The conduit pipe protects cables and gives users flexibility in selection of data, video, and power cables, depending on customer needs.



Caution The I/O cover and waterproof conduit pipe required to maintain enclosure protection rating.

Attention Le couvercle et le tuyau de conduit imperméable requis pour maintenir le degré de protection du boîtier.

Conduit Pipe Components

Before you start installing the pipe, be sure that you have the following components:

ltem	Description
	Slip Nut To secure "L" fitting adaptors.
\bigcirc	O-Ring Rubber / Gasket To maintain the IP Rating between equipment and cable.
9	Conversion reducers To convert thread forms and size between equipment and cable entry devices.
9	Locknuts To secure adaptors / reducers, and stopper plugs into equipment.
	Conduit Elbow To protect cables when installed in confined spaces where the cable may be bending. This threaded 90-degree bends are available with male connection threads.

Installing the Conduit Pipe

- 1. Insert the slip nut followed by the O-ring rubber/ gasket into the tube.
- 2. Adjust the location of O-ring rubber and pull the slip nut into the O-ring rubber and tighten up to ensure the waterproof seal.



3. Install the conversion reducers.



4. Place the threaded 90-degree bends into the slip nut and then fasten it.



To install I/O cover and Conduit Pipe

- 1. Connect cables to connectors. Conduit assembly may include all possible cables that might be needed. If not all cables are needed, they may be cut and removed from the conduit before installation.
- 2. Position the I/O cover on the rear of the panel PC with the Conduit Elbow pointing towards the center of the panel PC.
- 3. Install the provided ten sealing screws and tighten evenly.
- 4. Install other conduit pipe end in an equipment enclosure suitably rated for application environment.

The EVA Foam usage

Create an incision lengthwise on the EVA foam to pass through the cables.



2.3 Conduit Pipe Removal

Removal Instructions

- 1. Firmly hold the elbow twist grip with one hand.
- 2. Twist the elbow counterclockwise.
- 3. Pull the conduit out from the elbow.

2.4 Wiring Requirements

The following common safety precautions should be observed before installing any electronic device:

- Strive to use separate, non-intersecting paths to route power and networking wires. If power wiring and device wiring paths must cross make sure the wires are perpendicular at the intersection point.
- Keep the wires separated according to interface. The rule of thumb is that wiring that shares similar electrical characteristics may be bundled together.
- Do not bundle input wiring with output wiring. Keep them separate.
- When necessary, it is strongly advised that you label wiring to all devices in the system.
- Do not run signal or communication wiring and power wiring in the same conduit. To avoid interference, wires with different signal characteristics (i.e., different interfaces) should be routed separately.
- Be sure to disconnect the power cord before installing and/or wiring your device.
- Verify the maximum possible current for each wire gauge, especially for the power cords. Observe all electrical codes dictating the maximum current allowable for each wire gauge.
- If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.
- Be careful when handling the unit. When the unit is plugged in, the internal components generate a lot of heat which may leave the outer casing too hot to touch.

2.5 Wiring Diagram

This P Series Panel PC has waterproof conduit pipe and I/O cover to ensure protection rating. Please connect cables first, and then install I/O cover and conduit pipe.

Wiring Diagram





Note: Please use RJ45 to D-Sub9 Adapter to connect Serial Interfaces cable to P Series Panel PC.

2.6 Connector Pin Assignments

This P Series Panel PC is equipped with power connector, HDMI connector and USB connector for touch. The pin assignments of the connectors are described in this section.

2.6.1 Power Connector

The P Series Panel PC has either one 3-pin terminal block connector (phoenix type) power connector that accepts 12 V DC or 9 V DC to 36 V DC based on your order, or one power jack connector that accepts 12 V DC power input power based on your order.

Pin assignment and signal name of the 3-pin terminal block connector (phoenix type)



Pin assignment and signal name of the DC power jack connector



2.6.2 HDMI Connector

The P Series Panel PC has one HDMI1.4a connector for video and audio. Plug HDMI signal cable to the HDMI connector on the rear side of PC system, and plug the other end to the monitor.

Pin assignment and signal names for HDMI1.4a connector



Pin №	Signal Name	Pin №	Signal Name
1	HDMI_RX2+	2	GND
3	HDMI_RX2-	4	HDMI_RX1+
5	GND	6	HDMI_RX1-
7	HDMI_RX0+	8	GND
9	HDMI_RX0-	10	HDMI_RXC+
11	GND	12	HDMI_RXC-
13	HDMI_CON_CEC	14	NC
15	HDMI_CON_SCL	16	HDMI_CON_SDA
17	GND	18	+5V_HDMI
19	HDMI_CON_HP		

2.6.3 LAN Connector

The panel PC has two RJ45 connectors that support 10/100/1000 Mbps Ethernet interface for connecting to the internet.

Pin assignment and signal names of LAN connector

Activity LED	Pin №	Signal Name	Pin №	Signal Name
	1	TX1+	2	TX1-
8 1	3	TX2+	4	TX2-
	5	TX3+	6	TX3-
	7	TX4+	8	TX4-

2.6.4 USB Connector

The panel PC has two USB 3.0 connectors. Use USB cable to connect mouse, printer or other external devices to your Panel PC.

Pin assignment and signal names of USB 3.0 connector

Pin №	Signal Name	Pin №	Signal Name
1	+5V	2	USB_D-
3	USB_D+	4	GND
5	STDA_SSRX-	6	STDA_SSRX+
7	GND_DRAIN	8	STDA_SSTX-
9	STDA_SSTX+		

2.6.5 Serial Port Connector

Use COM1 serial port connector to connect your Panel PC to external devices such as mouse, modem or printer. You can configure serial port settings via jumpers located on the motherboard.

Pin assignment and signal names of serial port connector



Pin №	RS-232	RS-422	RS-485
1	DCD	TxD-	D-
2	RXD	TxD+	D+
3	TXD	RxD+	NC
4	DTR	RxD-	NC
5	GND	GND	GND
6	DSR	NC	NC
7	RTS	NC	NC
8	CTS	NC	NC
9	RI	NC	NC

Chapter 3: Getting Started

3.1 Connecting to Power Source

The P Series Panel PC has either one 3-pin terminal block connector (phoenix type) power connector that accepts 12 V DC or 9~36 V DC or one power jack connector that accepts 12 V DC power input power based on your order.

3.1.1 Connecting to AC Power Source

Follow the following steps to power on your device (with terminal block connector):

- 1. Install conduit pipe and I/O cover following the procedure described in the previous sections.
- 2. Connect open wires of the AC Adapter included in the package to the terminal block connector on the display.
- 3. Connect power cord to the other side of the AC Adapter.
- 4. Plug the power cord to the AC outlet.



Follow the following steps to power on your device (with terminal block connector):

- 5. Install conduit pipe and I/O cover following the procedure described in the previous sections.
- 6. Connect open wires of the AC Adapter included in the package to the terminal block connector on the display.
- 7. Connect power cord to the other side of the AC Adapter.
- 8. Plug the power cord to the AC outlet.

AC Ada	pter s	pecifications	and p	anel PC	power cor	nsumption	vary b	y LCD	panel size.
								,	

Size	15"	19"	21.5"	23.8"
AC Adapter	12V/ 84W	12V/ 84W	12V/ 84W	12V/ 84W
Power Consumption*	53W (typ.)	59W (typ.)	66W (typ.)	61W (typ.)

(Power consumption was measured at max. backlight and high CPU load)

3.1.2 Connecting to DC Power Source (Optional)

Follow the following steps to power on your device:

- 1. Connect the 3-pin terminal block.
- 2. Screw the Terminal block to fix the cable.
- 3. Connect terminal block to the display.
 + Connect to power supply until 0V
 -Connect to power supply until it get +9~36V DC
- 4. The device is ready to work once is connected to the source of power.



3.2 Turning On/ Off the Device

After connecting your devices to the source of power, press power button located on the OSD panel at the rear side of the panel PC.

•

Important: When powering on the device for the first time, please make sure there's no interruption during the Windows setting up process, for example, accidentally powering off. If it happened, please access the recovery menu by pressing **Fn6** button on the external keyboard to initiate recovery process.

To shut down your device, disconnect the power cord and the device will automatically turn off.

3.3 How to Enable Watchdog

To enable Watchdog, you need to download Winmate Watchdog utility. Find more information on Watchdog in "Watchdog Guide" that you can download from Winmate Download Center or File Share. Refer to the User Manual for more details.

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. In Watchdog utility window 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

Chapter 4: Insyde BIOS Setup

BIOS Setup Utility is a program for configuration basic Input / Output system settings of the computer for optimum use. This chapter provides information on how to use BIOS setup, its functions and menu.

4.1 How and When to Use BIOS Setup

To enter the BIOS setup, you need to connect an external USB keyboard, external monitor and press Del key when the prompt appears on the screen during start up. The prompt screen shows only few seconds so need press Del key quickly.



Important: Updated BIOS version may be published after the manual released. Check the latest version of BIOS on the website.

You may need to run BIOS setup utility for reasons listed below:

- 1. Error message on screen indicates to check BIOS setup
- 2. Restoring the factory default settings.
- 3. Modifying the specific hardware specifications
- 4. Necessity to optimize specifications

BIOS Navigation Keys

The following keys are enabled during POST:

Кеу	Function
Del	Enters the BIOS setup menu.
F7	Display the boot menu. Lists all bootable devices that are connected to the system. With cursor ↑and cursor ↓and by pressing <enter>, select the device used for the boot.</enter>
Pause	Pressing the [Pause] key stops the POST. Press any other key to resume the POST.

The following Keys can be used after entering the BIOS Setup.

Кеу	Function
F1	Help
F5/ F6	Change Values
F9	Setup Defaults
F10	Save & Exit
Esc	Exit
Enter	Select SubMenu
↑ / ↓	Select Item
$\leftarrow I \rightarrow$	Select Item



Note: You can press the F1, F2, F3, F4, –/+, and Esc keys by connecting a USB keyboard to your computer.

For items marked ► press **<Enter>** for more options.

4.2 BIOS Functions

4.2.1 Main Menu

The Main menu displays the basic information about yoursystem including BIOS version, processor RC version, system language, time, and date. When you enter BIOS setup, the first menu that appears on the screen is the main menu. It contains the system information including BIOS version, processor RC version, system language, time, and date.

Main Advanced Security I	InsydeH20 Setup Ut Power Root Exit	ility	Rev. 5.0
InsydeH20 Version Processor Type System Bus Speed System Memory Speed Cache RAM Total Memory Channel A SODIHH 0 Platform Configuration CPUID: CPU Speed: CPU Stepping: Number Of Processors: Microcode Rev: GT Info: SMX/TXT: PCH Rev / SKU GOP Ver: Intel ME Version / SKU LAN PHY Revision Language System Time System Date	IW32. V102 Intel(R) Core(TH) i5-8265U (100 HHz 2400 HHz 1024 KB 4096 HB 0x806EC (WhiskeyLake ULT) 1800 HHz 806EC (V0 Stepping) 4 Core(s) / 8 Thread(s) 000000CA GT3 (0x3EA0) Un-Supported 30 (D0 Stepping) / CNL PCH-L SKU 9.0.1098 12.0.35.1427 / CONSUMER A6 (B2 Stepping) <english> [16:04:151] [10/07/2020]</english>	PU @ 1.60GHz Select the in:	e current default language used sydeH20.
F1 Help	t/↓ Select Item F5/F6 C	nange Values 🛛 🛤	9 Setup Defaults
Esc Exit	+/→ Select Item Enter Se	elect►SubMenu 📑	IO Save and Exit
BIOS Setting	Description	Setting Option	Effect
Language	Displays the system language. [English] is set up by default.	Adjustment of the language	Set the language in other language. The language in this device is English.
System Time	This is current time setting. The time is maintained by the battery when the device is turned off.	Date and time changes.	Set the time in the format: [hh/mm/ss]
System Date	This is current date setting.	Date and time changes.	Set the date in the format [mm/dd/yyyy];

4.2.2 Advanced

Select the Advanced Tab from the setup menu to enter the advanced BIOS setup screen. You can select any of the items on the left frame of the screen to go to the sub menu for the item, such as CPU Configuration. You can use the <Arrow> keys enter all advanced BIOS setup options. The advanced BIOS setup menu is shown below. The submenus described on the following pages.



Caution Handle advanced BIOS settings page with caution. Any changes can affect the operation of your computer.

Avertissement Gérez la page des paramètres avancés du BIOS avec prudence. Toute modification peut affecter le fonctionnement de votre ordinateur.

	InsydeH20 Setup Utility	Rev. 5.0
Main Advanced Security Power Boot E	xit	
MainAdvancedSecurityPowerBootE*CPUConfiguration*Power & Performance*System Agent (SA)*PCH-10Configuration*PCH-10*PCH-FWConfiguration*S10F81866A	InsydeH20 Setup Utility xit	Rev. 5, C
F1 Help 1/4 Select	Iten F5/F6 Change Values	F9 Setup Defaults

BIOS Setting	Description	Setting Option	Effect
CPU	Configures Trusted	Enter	Opens
Configuration	Computing parameters		submenu
Power & Performance	Configures Power & Performance parameters	Enter	Opens submenu
System Agent	Configures System Agent	Enter	Opens
Configuration	Configuration parameters		submenu
PCH-OI	Configures PCH-OI	Enter	Opens
Configuration	parameters		submenu
PCH-FM	Configures PCH-FM	Enter	Opens
Configuration	parameters		submenu
SIO F81866A	Configures SIO F81866A parameters	Enter	Opens submenu

4.2.2.1 CPU Configuration

	InsydeH20	Setup Utility	Rev. 5.
Advanced			
CPU Configuration Type ID Speed VHX SHX/TXT	Intel(R) Core(TH) 0x806EC 1800 MHz Supported Not Supported	i5-8265U CPU @ 1.60GHz	When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.
Intel (VMX) Virtualization Technolog Active Processor Cores Hyper-Threading AES	gy <enabled> <all> <enabled> <enabled> <enabled></enabled></enabled></enabled></all></enabled>		
		ß	
F1 Help t/4 : Esc Exit +/+ :	Select Item Select Item	F5/F6 Change Values Enter Select ≻ SubMenu	F9 Setup Defaults F10 Save and Exit
BIOS Setting	Description	Setting Op	tion Effect

2.00 00tanig	2000.10.000	eetting epiteri	
Intel (VMX) Virtualization Technology	Enable or disable Intel Virtualization Technology.	Enable/Disable	When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.
Active Processor Cores	Number of core to enable in each processor package	All / 1 / 2/ 3	Select number of core to enable in each processor package
Hyper Threading	Intel Hyper- Threading Technology allows a single processor to execute two or more separate threads concurrently.	Enable / Disable	Enable or disable Hyper Threading
AES	Enable or disable AES (Advanced Encyption Standard)	Enable/Disable	Enable or disable AES

4.2.2.2 F81886A Configuration

	Insyde	H2O Setup Utility	Rev. 5.0
Advanced			
Advanced Serial Port A Serial Port C Serial Port D WDT Mardware Monitor >GP10 Group 5 Configuration >GP10 Group 8 Configuration	<auto> <auto> <auto> <auto> <auto> <d i="" le="" sab=""></d></auto></auto></auto></auto></auto>	K	Configure Serial port using options : [Disable] No Configuration [Enable] User Configuration [Auto] EFI/OS chooses configuration
F1 Help	1/1 Select Item	F5/F6 Change Values	F9 Setup Defaults
Esc Exit	+/+ Select Item	Enter Select 🕨 SubMenu	F10 Save and Exit

4.2.2.3 GPIO Configuration

	InsydeH20	Setup Utility	F	≷ev. 5.0
Advanced				
General Purpose Group 5 Input/Output GP1053			User can pull internal resistance push-pull/open-drain	
Internal Resistance Input/Output Mode	<push pull=""> <input/></push>			
Internal Resistance Input/Output Mode	<push pull=""> <input/></push>			
GP1055 Internal Resistance Input/Output Mode	<push pull=""> <input/></push>			
GP1056 Internal Resistance Input/Output Mode	<push pull=""> <input/></push>			
		R		
F1Help1/4 SelectEsc Exit+/+ Select	ltem Item	F5/F6 Change Values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit	

Advanced	Insyde	120 Setup Utility	Rev. 5.0
GP1080			push-pull/open-drain
Internal Resistance	<push pull=""></push>		
Input/Output Mode GP1081	<input/>		
Internal Resistance	<push pull=""></push>		
Input/Output Mode GP1082	<input/>		
Internal Resistance	<push pull=""></push>		
Input/Output Mode GP1083	<input/>		
Internal Resistance	<push pull=""></push>		
Input/Output Mode GP1084	<input/>		
Internal Resistance	<push pull=""></push>		
Input/Output Mode GP1085	<input/>		
Internal Resistance	<push pull=""></push>	R	
Input/Output Mode GP1086	<input/>		
Internal Resistance	<push pull=""></push>		
Input/Output Mode GP1087	<input/>		
Internal Resistance	<push pull=""></push>		
Input/Output Mode	<input/>		
F1 Help t/4 Se Esc Exit t/4 Se	lect Item	F5/F6 Change Values	F9 Setup Defaults F10 Save and Evit

4.2.2.4 Hardware Monitor

Advanced	InsydeH20	Setup Utility	Rev. 5.0
Huvanceu			
Hardware Monitor			
Voltage			
VCC (V)	3.440 V		
VCORE (V)	0.712 V		
V12S (V)	12.144 V		
V3.3S (V)	3.424 V		
VASB3 (V)	3.440 V		
	3.216 V 5.160 U		
VH3D3 (V)	5. TOU V		
Temperature			
Temperature 1 (°C/°F)	40.0 C/ 104.0 F		
Temperature 2 (°C/°F)	40.0 C/ 104.0 F		
Fan Speed	0.004		
FANT	U KPN	R	
FAN1 Mode	<manua i=""></manua>		
Output Value	[100]		
FI HEID Esc Evit	I/U Select Item	ForFo Unange Values	FV SETUP DETAULTS
LSC LATE			TTO Save and EXIL

4.2.2.5 PCH-IO Configuration

	InsydeH20 S	Setup Utility	Rev. 5.0
Advanced			
PCH-10 Configuration ▶PC1 Express Configuration ▶SATA And RST Configuration ▶USB Configuration			PCI Express Configuration settings
PCH LAN Controller State After G3	<enabled> <s5 state=""></s5></enabled>		
		R	
F1 Help 1/ Esc Exit +/	↓Select Item +Select Item	F5/F6 Change Values Enter Select ▶ SubMenu	F9 Setup Defaults F10 Save and Exit

BIOS Setting	Description	Setting Option	Effect
PCI Express Configuration	PCI Express clock gating enable/disable for each root port.	Enter	Opens sub-menu
SATA And RST Configuratuion	Enable/ Disable SATA device	Enter	Opens sub-menu
USB Configuration	Selectively enable/ disable the corresponding USB port from reporting a Device Connection to the controller.	Enter	Opens sub-menu
State After G3	System power state setting	S0 State S5 State	

4.2.2.6 PCI Express Configuration

Advanced	Insyc	deH20 Setup Utility	Rev. 5.0
PCI Express Configuration			PCL Express Clock Gating Enable/Disable
PCI Express Clock Gating	<enab led=""></enab>		for each root port.
 ▶PCI Express Root Port 6 PCI Express Root Port 7 ▶PCI Express Root Port 8 ▶PCI Express Root Port 13 	Reserved for e	ethernet	
		ß	
F1 Help Esc Exit	1/↓ Select Item +/→ Select Item	F5/F6 Change Values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit
	Insy	deH20 Setup Utility	Rev. 5.0
	(Enabled)		Control the DCL Everage Dept Part
		K	
F1 Help	1/1 Select Item	F5/F6 Change Values	F9 Setup Defaults

4.2.2.7 SATA and RST Configuration

	Insyde	eH20 Setup Utility	Rev. 5.0
SATA And RST Configuration			Enable/Disable SATA Device.
SATA Controller(s) SATA Mode Selection	<enabled> <ahcl></ahcl></enabled>		
Serial ATA Port 0 Software Preserve Port 0 Serial ATA Port 1 Software Preserve Port 1 Serial ATA Port 2 Software Preserve Port 2	Empty Unknown <enabled> Empty Unknown <enabled> Empty Unknown <enabled></enabled></enabled></enabled>		
		R	
F1 Help Esc Exit	1/↓ Select Item +/+ Select Item	F5/F6 Change Values Enter Select ≻ SubMenu	F9 Setup Defaults F10 Save and Exit

4.2.2.8 USB Configuration

	Insyd	eH20 Setup Utility	Rev. 5.0
Advanced			
USB Configuration			Selectively Enable/Disable the corresponding USB port from reporting a Device Connection to the controller.
USB Port Disable Override	<disable></disable>		
			R
Esc Exit	+/+ Select Item	F57F6 Change values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit



	Insydel	H2O Setup Utility	Rev. 5.0
Advanced			
ME Firnware Version ME Firnware Mode ME Firnware SKU ME Firnware Status 1 ME Firnware Status 2	12.0.35.1427 Normal Mode Consumer SKU 0x90000255 0x86100106		When Disabled ME will be put into ME Temporarily Disabled Mode.
HE State	<pre><enabled></enabled></pre>	×	
F1 Help Esc Exit	1/↓ Select Item +/→ Select Item	F5/F6 Change Values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit

4.2.2.10 Power & Performance

Advanced	InsydeH20 Setup Utility	Rev. 5.0
Power & Performance		CPU - Power Management Control Options
▶CPU - Power Management Control		
		R
F1 Help ↑/↓ Select Item	F5/F6 Change Values	F9 Setup Defaults
Esc Exit +/+ Select Item	Enter Select 🕨 SubMenu	F10 Save and Exit

34 IP69K Stainless P Series Panel PC User Manual

BIOS Setting	Description	Setting Option	Effect
CPU – Power Management Control	Configure CPU – Power Management parameters	Enter	Opens sub-menu

Advanced	InsydeH20 Setup	Utility		Rev.	5.0
CPU - Power Management Control Boot performance mode Intel(R) SpeedStep(tm) Intel(R) Speed Shift Technology Turbo Mode	<max non-turbo="" performan<br=""><enabled> <enabled> <enabled></enabled></enabled></enabled></max>	ce>	lect the performance DS will set starting	state that the from reset vecto	r.
	K				
F1 Help 1/4 Select Esc Exit +/+ Select	Item F5/F Item Ente	6 Change Values r Select⊧ SubMenu	F9 Setup Defau F10 Save and Ex	lts it	

BIOS Setting	Description	Setting Option	Effect
Boot Performance Mode	Configure Boot Performance Mode parameters	-Max non-turbo performance -Max battery -Turbo Performance	Select the performance state that the BIOS will set starting from reset vector
Intel SpeedStep (ta)	Configure Intel SpeedStep (ta) parameters	Enabled/ Disabled	Allows more than two frequency ranges to be supported
Intel Speed Shift Technology	Configure Intel Speed Shift Technology parameters	Enabled/ Disabled	Enable/ Disable Intel Speed Shift Technology support. Enabling will expose the CPP v2 interface to allow for hardware controlled P- states
-Turbo Mode	Enable or disable Turbo Mode	Enabled/ Disabled	Enable/ Disable processor Turbo Mode (requires EMTTM enabled too). Auto means enabled, unless max turbo ratio is bigger than 16 – SKL AO W/A
C states	Enable or disable C states	Enabled/ Disabled	Enable/ Disable CPU Power Management. Allows COU to go to C states when it is not 100% utilized
Custom P-state Table	Configure Custom P- state Table parameters	Enter	Enters sub-menu
-Number of P- states	Select the number of custom P-states.	[Number]	Set the number of custom P-states. At least 2 states must be present

4.2.2.11 System Agent (SA) Configuration

Advanced	InsydeH20 Se	tup Utility	Rev. 5.0
System Agent (SA) Configuration		Gr	aphics Configuration
SA PCIe Code Version VT-d	7. 0. 110. 64 Suppor ted		
▶Graphics Configuration			
VT-d	<enab led=""></enab>		
		ß	
F1 Help 1 Esc Exit	1/1 Select Item F -/→ Select Item E	5/F6 Change Values inter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit
BIOS Setting	Description	Setting Option	Effect
Graphics Configuration	Configure Graphics Configuration parameters	Enter	Opens sub-menu
Vt-d	Intel® Virtualization Technology for Directed I/O	Enabled Disabled	Vt-d capability



4.2.2.11.1 Graphics Configuration

BIOS Setting	Description	Setting Option	Effect
Internal Graphics	Internal Graphics settings	Auto Enabled Disabled	Keep IGFX enabled based on the setup options
Aperture Size	Select the aperture size	128MB 256MB 512MB 1024MB 2048 MB	Select the aperture size Note: Above 4MB MMIO BIOS assignment is automatically enabled when selecting 2048MB aperture. To use this feature please disable CSM port
DVMT Pre- Allocated	Select DVMT Pre- Allocated	0M~60M	Select DVMT 5.0 Pre-Allocated (Fixed) Graphic Memory size used by Internal Graphic Device
DVMT Total Gfx Mem	Select DVMT Total Gfx Mem	256M 128M MAX	Select DVMT 5.0 Total Graphic Memory size used by the Internal Graphic Device
Gfx Low Power Mode	Select Gfx Low Power Mode	Enabled/ Disabled	This option is applicable for SFF only

4.2.2.11.2 Vt-d

Advanced	InsydeH20	Setup Ut	ility		Rev	⁷ . 5. (
System Agent (SA) Configuration				VT−d capabili	ty	
SA PCle Code Version VT-d	7. 0. 110. 64 Suppor ted					
▶Graphics Configuration						
VT-d	<enabled></enabled>					
		b-TV				
	D	isabNed				
		nabled				
F1 Help ↑/↓ Se Esc Exit +/+ Se	elect Item elect Item	F5/F6 C Enter S	hange Values elect ► SubMenu	F9 S F10 S	etup Defaults ave and Exit	
DIOC Cotting	Description		Satting O	ntion	Effect	
BIOS Setting	Description		Setting U	ption	Effect	
Vt-d	Intel® Virtualization		Enabled Disabled		Vt-d capability	
	Technology	for				
	Directed I/O					

4.2.3 Boot

	Insydel	420 Setup Utility	Rev. 5.0
Main Advanced Security	Power Boot Exit		
Quick Boot Quiet Boot Network Stack PXE Boot capability ACPI Selection Timeout Automatic Failover ▶Boot Type Order	<d i="" led="" sab=""> <d i="" led="" sab=""> <d i="" led="" sab=""> <d i="" led="" sab=""> <acp 0="" i5.=""> [0] <enab led=""></enab></acp></d></d></d></d>	A w t	llows InsydeH20 to skip certain tests hile booting. This will decrease the ime needed to boot the system.
		×	
F1 Help For Fyit	1/1 Select Item	F5/F6 Change Values	F9 Setup Defaults

BIOS Setting	Description	Setting Option	Effect
Boot Type	Boot Type configuration	UEFI Boot Type	Select boot type to Dual type, Legacy type or UEFI type
Quick Boot	Quick Boot configuration	Enabled Disabled	Allows InsydeH20 to skip certain tests while booting. This will decrease the time needed to boot the system
Quiet Boot	Quiet Boot configuration	Enabled Disabled	Disable or enable booting in text Mode.
Timeout	Timeout	[Value]	Timeout settings
Automatic Failover		Enable	If boot to default device fail, it will directly try to boot next device
		Disable	If boot to default device fail, it will pop warning message then go to firmware UI
Boot Type Order	Boot Type Order	Enter	Opens sub-menu



4.2.3.1 Boot Type Order

	Ins Boot	sydeH20 Setup Utility		Rev. 5.0
Boot Type Order USB			Boot Type Order	
BEV Hard Disk Drive Others				
▶Hard Disk Drive ▶Others				
				8
F1 Help Fac Evit	1/↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	

BIOS Setting	Description	Setting Option	Effect
Hard Disk Type	Hard Disk Type configuration	Enter	Opens Sub-menu
Others	Other configuration	Enter	Opens Sub-menu

4.2.3.1.1 Others

	Ins	ydeH20 Setup Utility		Rev. 5.0
	Boot			
Others		01	thers	
Internal EFI Shell				
				R
F1 Help	↑/↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
Esc Exit	+/→ Select Item	Enter Select ► SubMenu	FIO Save and Exit	

4.2.4 Security

	InsydeH20	Setup Utility	Rev. 5.0
Main Advanced Security Power	Boot Exit		
Current TPM Device TPM State TPM Active PCR Hash Algorithm TPM Hardware Supported Hash Algo BIOS Supported Hash Algorithm TrEE Protocol Version TPM Availability TPM Operation Clear TPM Supervisor Password	<tpm (dtpm)="" 2.0=""> All Hierarchies Ena SHA1, SHA256, SHA38 rithm SHA1, SHA256, SHA38 SHA1, SHA256, SH3_2 <1.1> <available> <no operation=""> [] Not Installed</no></available></tpm>	bled, Owned 4 4 56	TrEE Protocol Version: 1.0 or 1.1
User Password Set Supervisor Password Set User Password Set All Hdd Password Set All Master Hdd Password	Not Installed	K	
▶Storage Password Setup Page			
F1 Help f Esc Exit +	/↓ Select Item /→ Select Item	F5/F6 Change Values Enter Select ▶ SubMenu	F9 Setup Defaults F10 Save and Exit

BIOS Setting	Description	Setting Option	Effect
TrEE Protocol Version	Choose TrEE	1.0	TrEE Protovol
	Protocol Version	1.1	Version: 1.0 or 1.1
TPM Availability	TPM Availability	Available Hidden	When hidden don't
TPM Operation	TPM Operation configuration	[]	Select one of the supported operation to change TPM2state
Clear TPM	Clear TPM configuration	[]	Select to Clear TPM
Set Supervisor Password	Set Supervisor Password	Enter New password	Install or Change the password and the length of password must be greater than one character

4.2.5 Power

		Insyde	120 Setup Utility	Rev. 5.0
Main Advanced	Security Power Boot	Exit		
Wake on PME Auto Wake on S5		<enabled> <disabled></disabled></enabled>		Determines the action taken when the system power is off and a PCI Power Management Enable wake up event occurs.
			×	
F1 Help Esc Exit	1/1 Sel +/+ Sel	ect Item ect Item	F5/F6 Change Values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit

BIOS Setting	Description	Setting Option	Effect
ACPI S3	ACPI S3 configuration	Disabled Enabled	Enable/ Disable ACPI S1/S3 Sleep state
Auto Wake on S5	Auto Wake on S5 configuration	Disabled By Every Day By Every Month	Auto Wake on S5, by Day or Month or fixed time of every day

<u>4.2.6 Exit</u>

		InsydeH20 Setup Utility		Rev. 5.0
Main Advanced Security Po	wer Boot Exit			
Main Advanced Security Po Exit Saving Changes Save Change Without Exit Exit Discarding Changes Load Optimal Defaults Load Custom Defaults Save Custom Defaults Discard Changes	wer Boot Exit		Exit system setup and save yo	ur changes.
E1 Help	1/1 Spinet The	E5/E6 Change Values	E9 Setup Defeutte	K
Esc Exit	+/+ Select Item	F57F5 Change Values Enter Select ► SubMenu	F9 Setup Defaults F10 Save and Exit	

4.3 Using Recovery Wizard to Restore Computer



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.
- 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.

R	ecovery	v Wizar	d		
c I	lick " Recove	ry " to restore	e your syster	n.	
	The process	will clear all	of your data		
I r	f you do not w eboot.	vant to restore	your systen	n please press	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 5: Driver Installation

This chapter provides guideline to driver installation.

5.1 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.



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

Intel(R) Chipset Device Software	
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. 	~
Back Accept Cancel	
	_

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



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

Intel(R) Chipset Device Software Completion	(intel)
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

5.2 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_23.20.16.4	1973					-	- 0	×
File Home	Share View	w Manage									^ (
Pin to Quick Copy access	Paste	path Move C shortcut to •	opy Delete Renar	me New folder	access • Pr	operties	Select all	ne ection			
Clip	oboard		Organize	New		Open	Select				
← → ~ ↑ 📒	> RDVD (D:)	> Driver > Graphics	> win64_23.20.16.4	1973			5 V	Search	win64_23.	20.16.4973	,P
	Name			Date modified	Туре	Size					
Quick access	🔊 🐼 wi	in64_23.20.16.4973		1/9/2018 4:38 AM	Application	n 324,126	KB				
Desktop	3										
Documents	*										
Pictures	*										
IntelNic											
ConeDrive											
This DC											
This PC											
RDVD (D:)											
Driver											
i Network											
1 item 1 item sele	ected 316 MB										B== 📼
• O r	11 🔿	-					~	5 (1))		4:41 AM	E
	· · · · · · · · · · · · · · · · · · ·	-						H20 N/0		7/2/2018	-2

2. Installation window will pop up, select Next.

Intel(R) Graphics Driver Software - InstallShield Wizard	×
Driver Version: 23.20.16.4901Release Version: Production VersionBuild Date: December 21, 2017Platforms:6th Gen Intel(R) Core(TM) processor family (codenameSkylake)7th Gen Intel(R) Core(TM) processor family (codenameKaby Lake)8th Gen Intel(R) Core(TM) processor family (codenameCoffee Lake)Apollo LakeGemini LakeOperating System(s):Microsoft Windows* 10-64 - Aniversary UpdateMicrosoft Windows* 10-64 - Creators UpdateMicrosoft Windows* 10-64 - Fall Creators UpdateCONTENTSI.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.	~
< Back Next > Cano	cel

50 IP69K Stainless P Series Panel PC User Manual

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

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

Refer to the Readme file below to view the system requirements and installation information. 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)	rements and installation in	on information.	
Refer to the Readme file below to view the system requirements and installation information. 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) Platforms (codename Skylake)	rements and installation i	on information.	
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)			
Driver Version: 23.20.16.4901 Release Version: Production Version Build Date: December 21, 2017 Platforms: 5th Gen Intel(R) Core(TM) processor family (codename Skylake)			
Release Version: Production Version Build Date: December 21, 2017 Platforms: 5th Gen Intel(R) Core(TM) processor family (codename Skylake)			,
Platforms: 6th Gen Intel(R) Core(TM) processor family (codename Skylake)			
Platforms: 6th Gen Intel(R) Core(TM) processor family (codename Skylake)			
The Case Table (C) Core (Tri) processor failing (coderante Skylake)	(adelyda		
/th Gen Intel(R) Core(IM) processor family (codename Kaby Lake)	(aby Lake)		
8th Gen Intel(R) Core(TM) processor family (codename Coffee Lake)			
	Coffee Lake)		
GeminI Lake	Coffee Lake)		
ADUIU Lake	Coffee Lake)		
	Coffee Lake)		
Apollo Lake	Coffoo Laka		
ei(k) Core(1M) processor family (codename Coffee Lake)	Taffaalalaa		
Apollo Lake	Coffee Lake)		
8th Gen Intel(R) Core(TM) processor family (codename Kaby Lake) 8th Gen Intel(R) Core(TM) processor family (codename Coffee Lake)	(aby Lake)		

5. Wait for the driver to be installed.

ntel® Installation Framework	
Intel® Graphics Driver	
Setup Progress	(intel)
Please wait while the following setup operations are performed:	
Installing Driver: Intel(R) Display Audio Version: 10.24.00.01	juninstali juninstali vuika
<	>
	Next >
Intel	® Installation Framework

etup Progress	(inte
Please wait while the following setup operations are	performed:
Deleting File: C: \ProgramData \Public\Desktop\Intel(R) HD (Deleting File: C: \Users\Public\Desktop\Intel(R) HD (Deleting File: C: \ProgramData \Picrosoft\Windows\ Deleting File: C: \ProgramData \Picrosoft\Windows\ Deleting File: C: \Users\Public\Desktop\Intel(R) Iris(Deleting File: C: \Users\Public\Desktop\Intel(R) Iris(Deleting File: C: \Users\Public\Desktop\Intel(R) Iris(Deleting Registry Key: HKLM\SOFTWARE\Intel\GFX Deleting Registry Key: HKLM\SOFTWARE\Intel\GFX Click Next to continue.	Start Price (Programs (Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(Inter(I

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

Intel® Installation Framework			×
Intel® Graphics Driver			
Setup Is Complete		(int	el
You must restart this computer for the changes to take effect. Would you computer now?	like to r	estart the	
• 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	۱
Inte	l® Inst	allation Fra	mework

5.3 Management Engine (ME)

Follow instructions below to install Management Engine (ME) .

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

File Home	Share	Appl view	ication Tools Manage	ME Software In:	staller			- 0	× ^ (
Pin to Quick Copy access	Paste pboard	Cut Copy path Paste shortcut	Move to •	X Delete ▼ ■ Rename	New folder New	Propertie	Edit Edit History Open	Select all Select none Invert selection Select	'n
← → ~ ↑ []	< In	tel Management En	gine Driver(Ka	> ME Softwar	re Installer	5 ~	Search ME	Software Installer	٥
📌 Quick access	*	Name	^ /er.dll		Date modified	d 1	Type Application extension	Size	B
Downloads	*	M SetunME			11/21/2017 11	1:30 7	Application	28 K	B
Pictures IntelNic IntelNic CneDrive This PC RDVD (D:) Driver	*		Size: 73 Date m	3.3 MB todified: 11/21/	2017 11:31 AM				
🧬 Network									

2. Select Next to start the installation.



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



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 **Finish** complete installation.



5.4 Audio Driver

Follow instructions below to install Audio driver.

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

📊 🖓 🛄 🖛	Application Tools Realtek High Det	inition Driver 64bit V6.0.1.8036(R281)	– 🗆 X
File Home Share	View Manage		^ (
Pin to Quick Copy Paste access	√ Cut √ Cut √ Copy path P Paste shortcut	New folder Properties	Select all Select none
Clipboard	Organize	New Open	Select
← → শ <mark>·</mark> « Au	udio > Realtek High Definition Driver 64bit V6.0.1.80	36(R281) 🗸 🖸 Search Rea	tek High Definitio 🔎
Ouick access	Name	Date modified Type	Size
Desktop 🖈	0008-64bit_Win7_Win8_Win81_Win10_R281	3/26/2017 7:43 PM Application	212,455 KB
🖶 Downloads 🛛 🖈			
🔮 Documents 🛛 🖈			
📰 Pictures 🛛 🖈			
IntelNic			
a OneDrive			
💻 This PC			
RDVD (D:)			
Driver			
🧀 Network			
1 item 1 item selected 2	207 MB		

2. Select **Next** to continue.



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

Realtek High Defini	ion Audio Driver Setup (4.54) R2.81	and the transmission of transm	- 0 ×
Realtek I	Figh Definition	Driver Setup (4.54) R2.81	
		Uninstall Complete InstallSheld Wizard has finished uninstalling Realtek High Definition Audio Driver.	
C		Realtek audio driver has been uninstalled. If you want to re-install the Realtek audio driver, please restart the computer. Realtek setup program will install audio driver automatically after reboot. Yes, I want to restart my computer now. No, I will restart my computer later.	
		InstaliSheld Wizard has finished uninstalling Realtek High Definition Audio Driver. To complete the uninstallation, you must restart your computer.	
	e InstallStield	< Back Finish Cancel	
 0 m			843 PM

5.5 Ethernet Driver

Follow instructions below to install LAN driver.

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

	Application loois			
File Home Share	View Manage			^
hare Email Zip Send	Print Fax	Advanced security		
← → ~ ↑ 📙 > RC	DVD (D:) > Driver > LAN > PROWinx64 20.30.	1 ~ Č	Search PROWinx64 20.30.1	Q
	Name	Date modified	Type Size	
Quick access	PROWinx64	1/18/2018 5:53 PM	Application 73,86	7 KB
Desktop 🖈				
Documents				
E Pictures 🖈				
IntelNic				
a OneDrive				
This PC				
👝 RDVD (D:)				
Driver				
💣 Network				
in Network				
🥩 Network				
💣 Network				

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 Advanced Networking Services.	
WARNING: This program is protected by copyright law and international treaties.	
< Back Next >	Cancel

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

License Agreement			(intal)
Please read the following license agree	ment carefully.		linter
			^
INTEL SOFTWAR	RE LICENSE AGR	EEMENT	
IMPORTANT - READ BEFOR	RE COPYING, IN S	TALLING OR USIN	VG.
Do not copy, install, or use this softw (collectively, the "Software") provide	vare and any as ed under this lic	sociated materia	lls
("Agreement") until you have carefu	lly read the follo	wing terms and	conditions.
("Agreement") until you have carefu By copying, installing, or otherwise u the terms of this Agreement. If you o do not copy, install, or use the Softw	Ily read the follo using the Softwa to not agree to t vare.	wing terms and are, you agree to he terms of this a	conditions. be bound by Agreement,
("Agreement") until you have carefu By copying, installing, or otherwise u the terms of this Agreement. If you o do not copy, install, or use the Softw LICENSES:	Ily read the follo using the Softwa lo not agree to t vare.	wing terms and are, you agree to he terms of this <i>i</i>	conditions. be bound by Agreement, v
("Agreement") until you have carefu By copying, installing, or otherwise u the terms of this Agreement. If you o do not copy, install, or use the Softw LICENSES: I accept the terms in the license agreem	Ily read the follo using the Softwa to not agree to t vare.	wing terms and are, you agree to he terms of this a	conditions. be bound by Agreement, V
("Agreement") until you have carefu By copying, installing, or otherwise of the terms of this Agreement. If you of do not copy, install, or use the Softw LICENSES: I accept the terms in the license agreem I do not accept the terms in the license	Illy read the follo using the Softwa to not agree to t are.	wing terms and are, you agree to he terms of this <i>i</i>	conditions. be bound by Agreement, V

4. System displays the installed packages, select Next.

🛃 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. (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.	Click Cancel to
	< Back	Install	Cancel

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

😸 Intel(R) Network Connections Install Wizard	>
Install wizard Completed	(intel)
To access new features, open Device Manager, and view the properties of the network adapters.	
< Back Finish	Cancel

5.6 Watchdog Driver

For more details about Winmate Watchdog, please download Watchdog Guide from Winmate Downloads Center or contact our sales representative.

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



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



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



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

I I I File Home	Share	Appli View M	cation Tools Manage	AP					_		× ^ ?
Pin to Quick Copy access Clij	Paste	Cut Copy path Paste shortcut	Move to •	X Delete ▼ ■ Rename	New folder New	Prope	erties	For the second s	Sele	ect all ect none ert selectio ielect	'n
← → ~ ↑	« Dri	iver > WatchDog_	AP V3.0.2(Driver	V2.0.0.4) > AF	•	~	Ū	Search AP			Q
· Ouick access		Name	^		Date modified	i	Ty	pe	Siz	ze	
Deskton		WatchDog_	AP_3.0.2		3/5/2018 12:5	1 AM	W	/indows Install	er	1,593 K	в
Downloads Documents Pictures IntelNic OneDrive This PC RDVD (D:) Driver	* *										
Network 1 item 1 item selection	ected 1	.55 MB									

6. Select Next.



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

뤯 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, en "Browse".	ter it be	low or clic	k
		_	
C: Program Files (x86) (WatchDog_AP (WatchDog_AP)		Browse.	•
Advanced Installer			
< Back Next >	>	Can	cel

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

뤯 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, dick "Back". Click "Cancel" to exit the wizard.	
Advanced Installer	ncel

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



Chapter 6: Maintenance and Troubleshooting

6.1 Cleaning the Monitor

I	- `
I	
I	

Note: The IP69K Stainless Panel PC withstands regular intense cleaning and could hold up against steam and high-pressure water. The devices are able to sustain water temperatures up to 80°C and a water jets.

Before cleaning:

- Make sure the device is turned off.
- Disconnect the power cable from any AC outlet.

When cleaning:

- Use water up to 80°C to clean the housing.
- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- The display area is highly prone to scratching. Do not use ketene type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It may permanently damage the panel and void the warranty.
- If it is still not clean enough, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
- Don not use oil directly on the display screen. If droplets are allowed to drop on the screen, permanent staining or discoloration may occur.

Problem	Solution
There is a black dot or dead pixel dot on the screen	A missing pixel does not constitute an out of spec. defective product
Cannot turn power on	Turn off the power supply, and check that the AC cord or DC cord are securely inserted. After checking, turn on the power supply again.
There are spots on the screen	There may be electrical distortion from vehicles, trains, high voltage lines or fluorescent lamps.
Bad color	Color density or tint control may not be adjusted properly (Check the adjusted value of image.)
Image appears and disappears	Input may not be connected properly.
When changing the screen size, the top and bottom part of the screen does not show images	When using a video software program (such as a cinema size program) with a screen wider than one in the 16:9 mode, blank areas separate from the images are formed at the top and bottom of the screen.
Image contour flickers	Due to the characteristics of the display control, contour of animated parts of images may seem to flicker, but that is not a breakdown.

6.2 Basic Troubleshooting

Appendix

Appendix A: Hardware Specifications

	Model Name				
	R15IW3S-SPC369-P1	R19IW3S-SPM169-P1	W22IW3S-SPA369-P1	W24IW3S-SPA269-P1	
Display					
Size	15"	19"	21.5"	23.8"	
Resolution	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1080	
Brightness	300 nits (typ.)	250 nits	250 nits (typ.)	250 nits (typ.)	
Contrast Ratio	2000:1 (typ.)	1000:1 (typ.)	3000:1(typ.)	3000:1(typ.)	
Viewing Angle	-88~88(H);-88~88(V)	85~85 (H); -80~80(V)	-89~89 (H); -89~89(V)	-89~89 (H); -89~89(V)	
Touch	Projected Capacitive Multi-Touch (PCAP)	Projected Capacitive Multi-Touch (PCAP)	Projected Capacitive Multi-Touch (PCAP)	Projected Capacitive Multi-Touch (PCAP)	
System Specification	ו				
CPU	Intel® Core™ i5 - 8265U (6M Cache, 1.6GHz up to 3.9 GHz)	Intel® Core™ i5 - 8265U (6M Cache, 1.6GHz up to 3.9 GHz)	Intel® Core ™ i5 - 8265U (6M Cache, 1.6GHz up to 3.9 GHz)	Intel® Core™ i5 - 8265U (6M Cache, 1.6GHz up to 3.9 GHz)	
System Memory	1 x SO-DIMM, DDR4 2400 MHz, 4GB 8GB(Optional) 16GB(Optional) 32GB(Optional)				
Storage	1 x M.2 2242 B-key SSD Slot 64GB (Optional up to 512GB) M.2 2280 NVME SSD, up to 4TB (Optional) 2 x SATA III support RAID 0,1 (Optional)	1 x M.2 2242 B-key SSD Slot 64GB (Optional up to 512GB) M.2 2280 NVME SSD, up to 4TB (Optional) 2 x SATA III support RAID 0,1 (Optional)	1 x M.2 2242 B-key SSD Slot 64GB (Optional up to 512GB) M.2 2280 NVME SSD, up to 4TB (Optional) 2 x SATA III support RAID 0,1 (Optional)	1 x M.2 2242 B-key SSD Slot 64GB (Optional up to 512GB) M.2 2280 NVME SSD, up to 4TB (Optional) 2 x SATA III support RAID 0,1 (Optional)	
Expansion	1 x M.2 2232 E- KeySlot (for half size Wifi Module) 1 x M.2 2242/2280 Slot (for NVME SSD or SATA III SSD)	1 x M.2 2232 E- KeySlot (for half size Wifi Module) 1 x M.2 2242/2280 Slot (for NVME SSD or SATA III SSD)	1 x M.2 2232 E-KeySlot (for half size Wifi Module) 1 x M.2 2242/2280 Slot (for NVME SSD or SATA III SSD)	1 x M.2 2232 E- KeySlot (for half size Wifi Module) 1 x M.2 2242/2280 Slot (for NVME SSD or SATA III SSD)	
Ethernet Controller	Intel® Ethernet Controller I210-AT + Intel® Ethernet Connection I219-LM				
Security	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0	
Operating System	Windows 10 IoT Enterprise(Optional) Linux Ubuntu 18.04 (Optional)				
Input/ Output Conne	ctors				
LAN	2 x Giga LAN RJ45 Connector				
Serial Port	1 x RS232/422/485 (Default RS232)				
USB Port	2 x USB3.0 (Type-A)				
HDMI	1 x HDMI 1.4 (Optional)				
Expansion Port	2 x WI.2 SIOT(1 FOR WIFI, 1 for SSD) 1 x LED Indicator on	2 x IVI.2 SIOT(1 FOR WIFI, 1 for SSD)	$2 \times 101.2 \text{ slot}(1 \text{ for WIFI,} 1 \text{ for SSD})$	∠ x wi.∠ slot(1 for WIFI, 1 for SSD)	
Indicator	power button	power button power button power button power button power button		power button	
Control					
Button	1 x Power Button	1 x Power Button	1 x Power Button	1 x Power Button	

	Model Name					
	R15IW3S-SPC369-P1	R19IW3S-SPM169-P1	W22IW3S-SPA369-P1	W24IW3S-SPA269-P1		
Mechanical Specification						
Dimensions	388 x 301 x 56.2 mm	478 x 395 x 57 mm	551 x 337 x 56.2 mm	630 x 390 x 56 mm		
Housing	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316		
Mounting	VESA Mount, Yoke Mount	VESA Mount, Yoke Mount	VESA Mount, Yoke Mount	VESA Mount, Yoke Mount		
Cooling System	Fanless design Fanless design Fanless design		Fanless design			
Environmental Consideration						
Operating Temperature	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C		
Storage Temperature	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C		
Operating Humidity	10% to 90% (non- condensing)	10% to 90% (non- condensing)	10% to 90% (non- condensing)	10% to 90% (non- condensing)		
IP Rating	Full IP69K	Full IP69K	Full IP69K	Full IP69K		
Power Specifications						
Power Rating	12 V DC in 9-36 V DC in (Optional)	12 V DC in 9-36 V DC in (Optional)	12 V DC in 9-36 V DC in (Optional)	12 V DC in 9-36 V DC in (Optional)		
Standards and Certification						
Certification	CE, FCC	CE, FCC	CE, FCC	CE, FCC		

Appendix B: Winmate Software Development Kit

Winmate provides the following SDK and Utilities for the IP69K Stainless P Series Panel PC.

Item	File Type	Description
1	SDK	Watchdog SDK
2	Utility	Watchdog Utility

To find the Drivers and SDK, please refer to the Driver CD that comes in the package or contact us. Also, you can download drivers from Winmate Download Center.

Appendix C: Accessories

Waterproof Conduit

Dimensions



Elbow for Connect to Conduit

Dimensions



Open wire cable for phoenix connector (Default for 9~36V DC input SKU)

50mi	m 🛌	-	4	1400mm		<mark>⊳ ⊲></mark> 5mm
-			1500mm			
Pin No.	Symbols	Color]	Pin No.	Symbols	Color
Open wire 5mm		Red	┝──	• Open v	wire 5mm	Red
Open wire 5mm		Black	┝──	• Open v	wire 5mm	Black
Open wire 5mm		Green	}←── >	 Open v 	wire 5mm	Green

Unit: mm

Unit: mm



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