UP Squared Pro 7000

Maker Board
UPN-ADLN01

User's Manual 1st Ed

Last Updated: February 23, 2023

Copyright Notice

Acknowledgement

Packing List

Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
● UPN-ADLN01 (UP Squared Pro 7000) with heatsink	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

About this Document

This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the product page at AAEON.com for the latest version of this document.

Safety Precautions

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
6. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
7. Always disconnect this device from any AC supply before cleaning.
8. While cleaning, use a damp cloth instead of liquid or spray detergents.
9. Make sure the device is installed near a power outlet and is easily accessible.
10. Keep this device away from humidity.
11. Place the device on a solid surface during installation to prevent falls
12. Do not cover the openings on the device to ensure optimal heat dissipation.
13. Watch out for high temperatures when the system is running.
14. Do not touch the heat sink or heat spreader when the system is running
15. Never pour any liquid into the openings. This could cause fire or electric shock.
16. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.

17. If any of the following situations arises, please the contact our service personnel:
    i. Damaged power cord or plug
    ii. Liquid intrusion to the device
    iii. Exposure to moisture
    iv. Device is not working as expected or in a manner as described in this manual
    v. The device is dropped or damaged
    vi. Any obvious signs of damage displayed on the device
18. DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.

FCC Statement

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

Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

Attention:

Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte.
Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur.
Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

China RoHS Requirements (CN)

产品中有毒有害物质或元素名称及含量

AAEON Main Board/ Daughter Board/ Backplane

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板及其电子组件	X	X	O	O	O	O
外部信号连接器及线材	X	X	O	O	O	O

O：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

X：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。

备注：此产品所标示之环保使用期限，系指在一般正常使用状况下。

China RoHS Requirement (EN)

Poisonous or Hazardous Substances or Elements in Products

AAEON Main Board/ Daughter Board/ Backplane

Component	Poisonous or Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
PCB & Other Components	X	X	O	O	O	O
Wires & Connectors for External Connections	X	X	O	O	O	O

O：The quantity of poisonous or hazardous substances or elements found in each of the component's parts is below the SJ/T 11363-2006-stipulated requirement.

X: The quantity of poisonous or hazardous substances or elements found in at least one of the component's parts is beyond the SJ/T 11363-2006-stipulated requirement.

Note: The Environment Friendly Use Period as labeled on this product is applicable under normal usage only

Table of Contents

Chapter 1

Product Specifications

1.1 Specifications

System	
Processor	Intel® Core™ i3-N305
	Intel Atom® x7425E
	Intel® Processor N97
	Intel® Processor N50
	(formerly Alder Lake N)
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Memory	Up to 16GB LPDDR5
Storage	Up to 64GB eMMC
I/O	HDMI 2.0b x 1
	DP 1.2 x 1
	DP 1.4a x 1 (via USB Type-C)
	Audio Jack x 1 (Mic-In + Line-Out)
	RS-232/422/485 x 2 (from 10-pin header)
Camera	MIPI-CSI via 61-Pin FPC Connector
USB	USB 2.0 x 2 (from 10-pin Header x 1)
	USB 3.2 Gen 2 x 2 (Type-A)
	USB 3.2 Gen 2 x 1 (Type-C)
Expansion	40 pin GPIO x 1
	M.2 2230 E-Key x 1 (CNVI, PCIe Gen 3 [x1], USB 2.0)
	M.2 2280 M-Key x 1 (PCIe Gen 3 [x2], USB 2.0)
	M.2 3052 B-Key x 1 (USB 3.2 Gen 2 only)
	SATA III x 1
Display Interface	HDMI 2.0b x 1
	DP 1.2 x 1
	DP 1.4a x 1 (via USB Type-C)

System

Ethernet	2.5GbE x 2 (Intel® i226-IT)
Security	Onboard TPM 2.0
RTC	Yes
OS Support	Windows® 10 IoT Enterprise
	Windows® IoT Core
	Ubuntu 22.04 LTS
	Yocto 4

Power Requirement

Power	12V DC-in, 6A
Power Supply Type	AT/ATX
Power Consumption	35W

Mechanical

Dimension	4" x 4" (101.6mm × 101.6mm)
Net Weight	0.44 lb. (0.2 Kg)
Gross Weight	0.77 lb. (0.35 Kg)

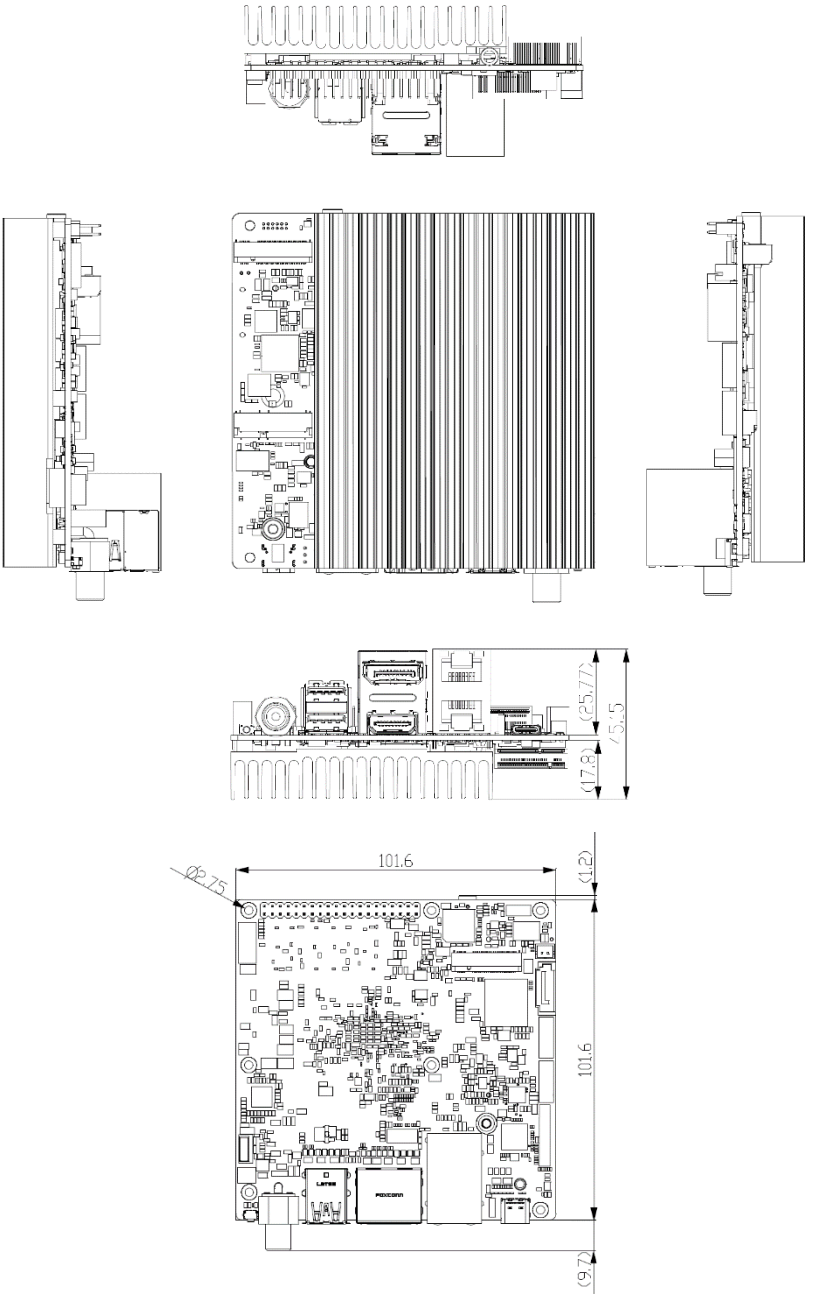
Environment

Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) / 0.5 airflow
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	422,053
Certification	CE/FCC Class A, RoHS Compliant, REACH

Chapter 2

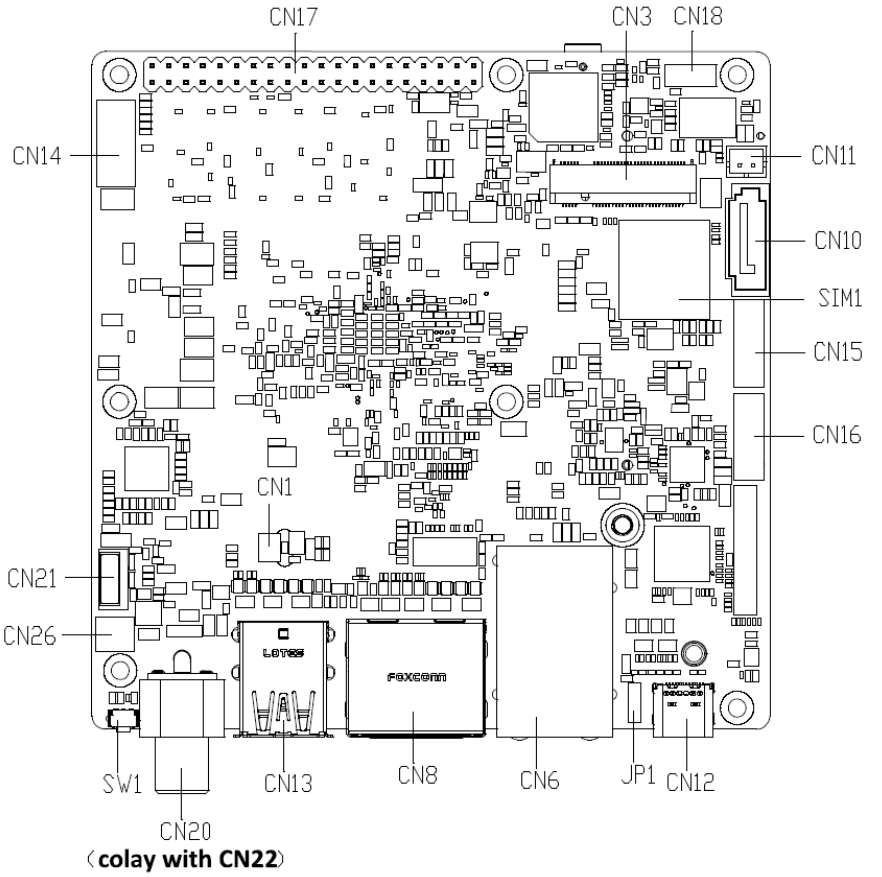
Hardware Information

2.1 Dimensions



2.2 Jumpers and Connectors

Top:



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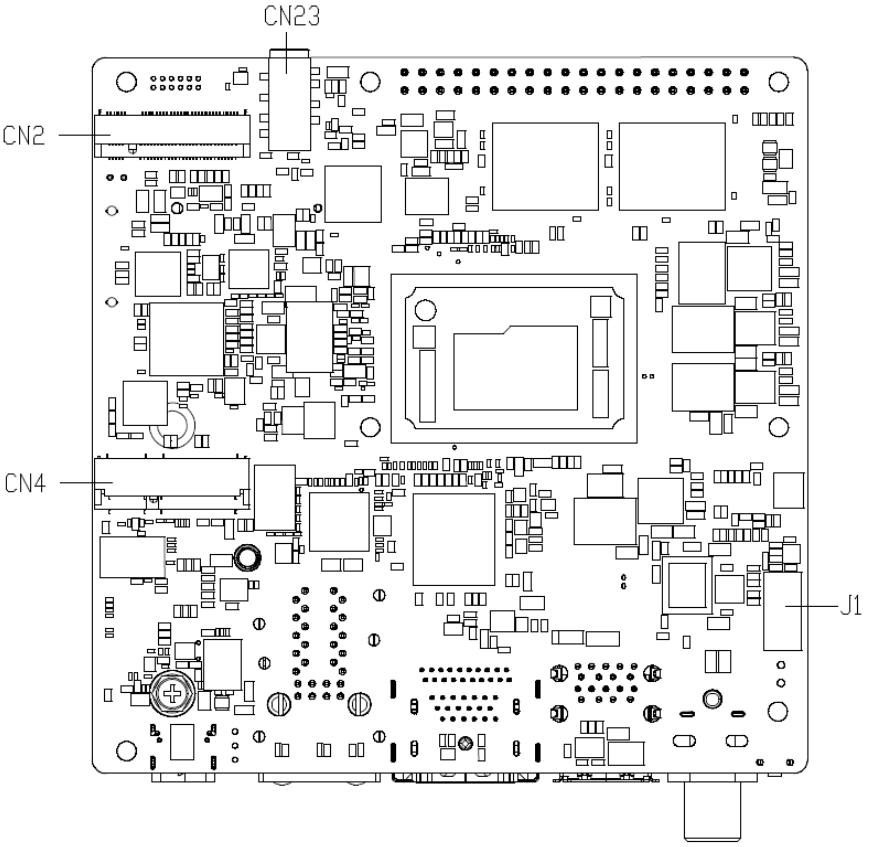


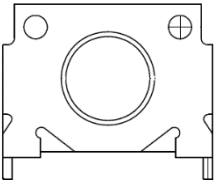
2.3 List of Jumpers and Connectors

Please refer to the table below for all of the board's jumpers and connectors that you can configure for your application

Label	Function
SW1	PWR Button
CN1	RTC
CN2	M.2 2280 M-Key Slot
CN3	M.2 3052 B-Key Slot
CN4	M.2 2230 E-Key Slot
CN6	Dual LAN Port (RJ-45)
CN8	HDMI/DP Port
CN10	SATA Connector
CN11	SATA Power Connector
CN12	USB Type-C Port
CN13	Dual USB Type-A Port
CN14	USB 2.0/UART 1x10P Wafer
CN15	RS-232/422/485 1x10P Wafer (COM 1)
CN16	RS-232/422/485 1x10P Wafer (COM 2)
CN17	40-Pin HAT
CN18	CPLD and BIOS Update
CN20	DC Power Jack
CN21	Front Panel 1x6P Wafer
CN22	DC Terminal Block (Optional with Colay)
CN23	Audio Wafer
CN26	12V DC-In Connector

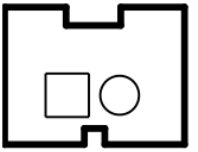
Label	Function
J1	Fan Connector
JP1	AT/ATX Mode
SIM1	Nano SIM Card Connector

2.3.1 Power Button (SW1)



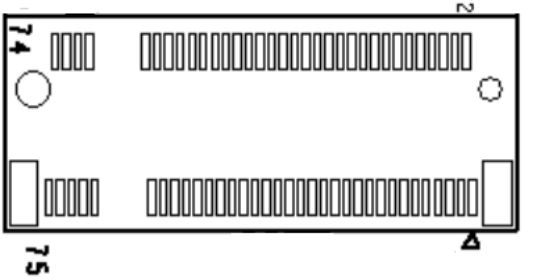
Switch Position	Function
SW1 1	(Default)
SW1 0	Power ON

2.3.2 RTC (CN1)



Pin	Signal	Pin	Signal
1	RTC_VCC	2	GND

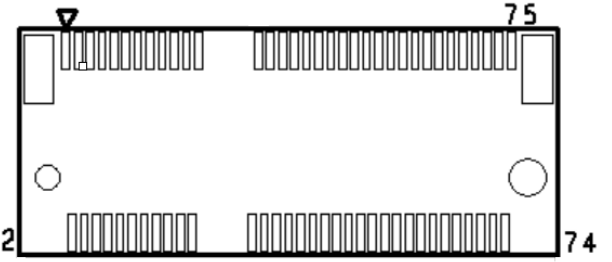
2.3.3 M.2 2280 M-Key Slot (CN2)



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	+3.3V	3	NC
4	+3.3V	5	NC	6	FULL_CARD_POWER
7	NC	8	NC	9	GND
10	NC	11	NC	12	+3.3V
13	NC	14	+3.3V	15	GND
16	+3.3V	17	NC	18	+3.3V
19	NC	20	NC	21	GND
22	NC	23	NC	24	NC
25	NC	26	NC	27	GND
28	NC	29	PCIE_RXN10	30	NC
31	PCIE_RXP10	32	NC	33	GND
34	NC	35	PCIE_TXN10	36	NC
37	PCIE_TXP10	38	NC	39	GND
40	SMB_CLK_1V8	41	PCIE_RXN9	42	SMB_DATA_1V8
43	PCIE_RXP9	44	NC	45	GND
46	NC	47	PCIE_TXN9	48	NC
49	PCIE_TXP9	50	PLT_RST#	51	GND
52	PCIE_CLKREQ#	53	PCIE3_CLK_DN	54	PCIE_WAKE#

Pin	Signal	Pin	Signal	Pin	Signal
55	PCIE3_CLK_DP	56	NC	57	GND
58	NC	59	NC	60	NC
61	NC	62	NC	63	NC
64	NC	65	NC	66	NC
67	NC	68	NC	69	NC
70	+3.3V	71	GND	72	+3.3V
73	GND	74	+3.3V	75	GND

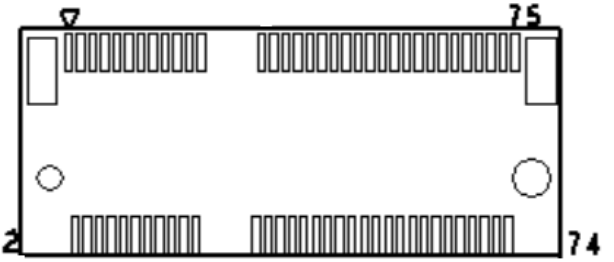
2.3.4 M.2 3052 B-Key Slot (CN3)



Pin	Signal	Pin	Signal	Pin	Signal
1	NC	2	+3.3V	3	GND
4	+3.3V	5	GND	6	FULL_CARD_PWR_OFF#(1.8V)
7	USB2_D+	8	W_DISABLE#1	9	USB2_D-
10	NC	11	GND	12	NC
13	NC	14	NC	15	NC
16	NC	17	NC	18	NC
19	NC	20	NC	21	NC
22	NC	23	NC	24	NC
25	NC	26	NC	27	GND

Pin	Signal	Pin	Signal	Pin	Signal
28	NC	29	USB3_RX3-	30	UIM_RST
31	USB3_RX3+	32	UIM_CLK	33	GND
34	UIM_DAT	35	USB3_PX3-	36	UIM_PWR
37	USB3_PX3+	38	NC	39	GND
40	NC	41	NC	42	NC
43	NC	44	NC	45	GND
46	NC	47	NC	48	NC
49	NC	50	PLT_RST#(3.3V)	51	GND
52	NC	53	NC	54	NC
55	NC	56	NC	57	GND
58	NC	59	NC	60	NC
61	NC	62	NC	63	NC
64	NC	65	NC	66	NC
67	PLT_RST#(1.8V)	68	NC	69	NC
70	+3.3V	71	GND	72	+3.3V
73	GND	74	+3.3V	75	GND

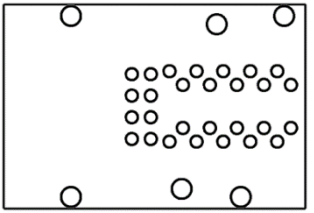
2.3.5 M.2 2230 E-Key Slot (CN4)



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	+3.3V	3	USB2_D8+
4	+3.3V	5	USB2_D8-	6	NC
7	GND	8	NC	9	CNV_WR_LANE1_DN
10	CNV_RF_RST#	11	CNV_WR_LANE1_DP	12	NC
13	GND	14	CNV_CLKREQ_R	15	CNV_WR_LANE0_DN
16	NC	17	CNV_WR_LANE0_DP	18	GND
19	GND	20	NC	21	CNV_WR_CLK_DN
22	CNV_RGI_RSP_R	23	CNV_WR_CLK_DP	24	NC
25	NC	26	NC	27	NC
28	NC	29	NC	30	NC
31	NC	32	CNV_RGI_DT	33	GND
34	CNV_RGI_RSP	35	PCIE11_TXP	36	CNV_BRI_DT
37	PCIE11_TXN	38	NC	39	GND
40	NC	41	PCIE11_RXP	42	NC
43	PCIE11_RXN	44	NC	45	GND
46	NC	47	PCIE_CLK2P	48	NC
49	PCIE_CLK2N	50	SUS_CLK	51	GND
52	WIFI_RST#	53	PCIE_CLKREQ#	54	BT_EN

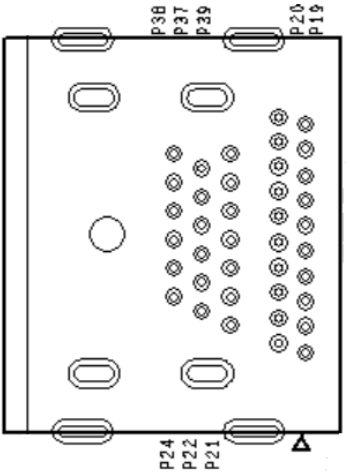
Pin	Signal	Pin	Signal	Pin	Signal
55	PCIE_WAKE#	56	WIFI_EN	57	GND
58	NC	59	CNV_WT_LANE1_DN	60	NC
61	CNV_WT_LANE1_DP	62	NC	63	GND
64	NC	65	CNV_WT_LANE0_DN	66	NC
67	CNV_WT_LANE0_DP	68	NC	69	GND
70	NC	71	CNV_WT_CLK_DN	72	+3.3V
73	CNV_WT_CLK_DP	74	+3.3V	75	GND

2.3.6 Dual LAN Port (RJ-45) (CN6)



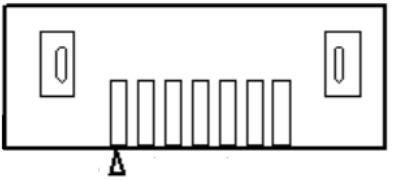
Pin	Signal	Pin	Signal	Pin	Signal
R1A	LAN1_MDI0+	R2A	LAN1_MDI0-	R3A	LAN1_MDI1+
R4A	LAN1_MDI1-	R5A	LAN1_MDI2+	R6A	LAN1_MDI2-
R7A	LAN1_MDI3+	R8A	LAN1_MDI3-	R9A	GND
R10A	GND	L1A	LAN1_ACTLED-	L2A	LAN1_ACTLED+
L3A	LAN1_LINK2500#	L4A	LAN1_LINK1000#	R1B	LAN2_MDI0+
R2B	LAN2_MDI0-	R3B	LAN2_MDI1+	R4B	LAN2_MDI1-
R5B	LAN2_MDI2+	R6B	LAN2_MDI2-	R7B	LAN2_MDI3+
R8B	LAN2_MDI3-	R9B	GND	R10B	GND
L1B	LAN2_ACTLED-	L2B	LAN2_ACTLED+	L3B	LAN2_LINK2500#
L4B	LAN2_LINK1000#				

2.3.7 HDMI/DP Port (CN8)



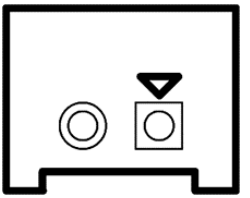
Pin	Signal	Pin	Signal	Pin	Signal
P1	DP_TXP0	P2	GND	P3	DP_TXN0
P4	DP_TXP1	P5	GND	P6	DP_TXN1
P7	DP_TXP2	P8	GND	P9	DP_TXN2
P10	DP_CLK+	P11	GND	P12	DP_CLK-
P13	CONFIG1	P14	CONFIG2	P15	DP_AUX_P
P16	GND	P17	DP_AUX_N	P18	DP_HPD
P19	GND	P20	3.3V	P21	HDMI_TXP2
P22	GND	P23	HDMI_TXN2	P24	HDMI_TXP1
P25	GND	P26	HDMI_TXN1	P27	HDMI_TXP0
P28	GND	P29	HDMI_TXN0	P30	HDMI_CLK+
P31	GND	P32	HDMI_CLK-	P33	NC
P34	NC	P35	DDC_CLK	P36	DDC_DATA
P37	GND	P38	5V	P39	HDMI_HPD

2.3.8 SATA Connector (CN10)



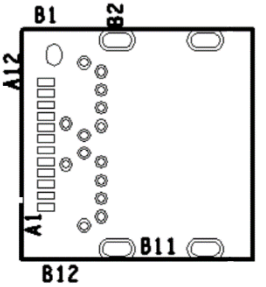
Pin	Signal	Pin	Signal
1	GND	2	SATA_TXP0
3	SATA_TXN0	4	GND
5	SATA_RXN0	6	SATA_RXP0
7	GND		

2.3.9 SATA Power Connector (CN11)



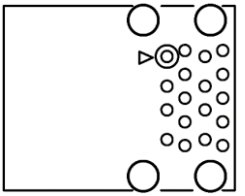
Pin	Signal	Pin	Signal
1	5V	2	GND

2.3.10 USB Type-C Port (CN12)



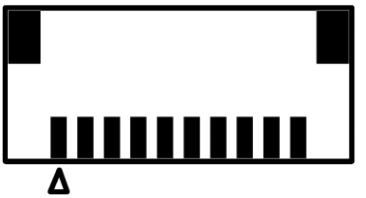
Pin	Signal	Pin	Signal	Pin	Signal
A1	GND	A2	SSTXP1	A3	SSTXN1
A4	+5V	A5	CC1	A6	DP1
A7	DN1	A8	SBU1	A9	+5V
A10	SSRXN2	A11	SSRXP2	A12	GND
B1	GND	B2	SSTXP2	B3	SSTXN2
B4	+5V	B5	CC2	B6	DP1
B7	DN1	B8	SBU2	B9	+5V
B10	SSRXN1	B11	SSRXP1	B12	GND

2.3.11 Dual USB Type-A Port (CN13)



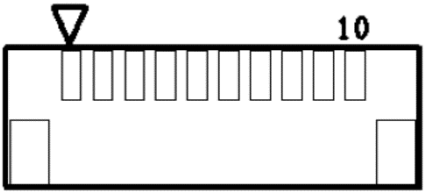
Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_D1-	3	USB2_D1+
4	GND	5	USB3_RX1-	6	USB3_RX1+
7	GND	8	USB3_TX1-	9	USB3_TX1+
10	+5V	11	USB2_D2-	12	USB2_D2+
13	GND	14	USB3_RX2-	15	USB3_RX2+
16	GND	17	USB3_TX2-	18	USB3_TX2+

2.3.12 USB 2.0/UART 1x10P Wafer (CN14)



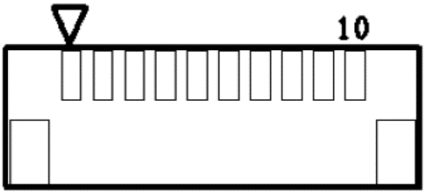
Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_D3-	3	USB2_D3+
4	GND	5	+5V	6	USB2_D4-
7	USB2_D4+	8	GND	9	UART_RX
10	UART_TX				

2.3.13 RS-232/422/485 1x10P Wafer (COM 1) (CN15)



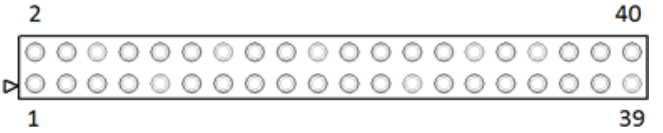
Pin	Signal	Pin	Signal
1	DCD / RS422TX- / RS485-	2	RX / RS422TX+ / RS485+
3	TX / RS422RX+	4	DTR / RS422RX-
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

2.3.14 RS-232/422/485 1x10P Wafer (COM 2) (CN16)



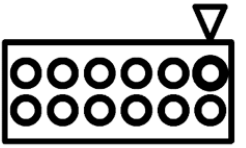
Pin	Signal	Pin	Signal
1	DCD / RS422TX- / RS485-	2	RX / RS422TX+ / RS485+
3	TX / RS422RX+	4	DTR / RS422RX-
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

2.3.15 40-Pin HAT (CN17)



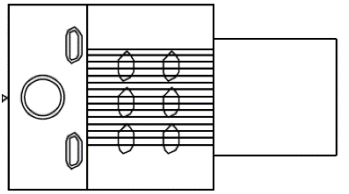
Pin	Signal	Pin	Signal
1	+3.3V	2	+5V
3	I2C1_DAT / GPIO1	4	+5V
5	I2C1_CLK / GPIO2	6	GND
7	ANALOG_DATA / GPIO3	8	UART_TX / GPIO16
9	GND	10	UART_RX / GPIO17
11	GPIO4/ UART_RTS	12	I2S_BCLK / GPIO18
13	GPIO5	14	GND
15	GPIO6	16	GPIO19
17	+3.3V	18	GPIO20
19	SPI_MOSI / GPIO7	20	GND
21	SPI_MISO / GPIO8	22	GPIO21
23	SPI_CLK / GPIO9	24	SPI_CS0 / GPIO22
25	GND	26	GPIO23
27	I2C0_DAT / GPIO10	28	I2C0_CLK / GPIO24
29	GPIO11	30	GND
31	GPIO12	32	PWM0 / GPIO25
33	PWM1 / GPIO13	34	GND
35	I2S_SYNC / GPIO14	36	GPIO26/ UART_CTS
37	GPIO15	38	I2S_SDI / GPIO27
39	GND	40	I2S_SDO / GPIO28

2.3.16 CPLD and BIOS Update (CN18)



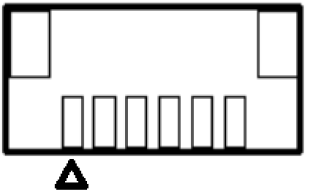
Pin	Signal	Pin	Signal	Pin	Signal
1	JTAG_TCK	2	GND	3	JTAG_TDO
4	1.8V	5	JTAG_TMS	6	SPI_CS
7	SPI_CLK	8	SPI_MISO	9	JTAG_TDI
10	GND	11	SPI_MOSI	12	SPI_HOLD

2.3.17 DC Power Jack (CN20)



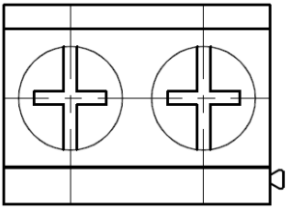
Pin	Signal	Pin	Signal
1	DC_IN	2	GND
3	GND		

2.3.18 Front Panel 1x6P Wafer (CN21)



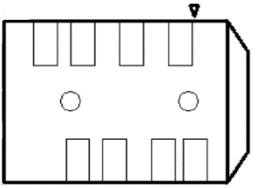
Pin	Signal	Pin	Signal
1	GND	2	RESET
3	GND	4	POWER S/W
5	GND	6	+5V

2.3.19 DC Terminal Block (Optional with Colay) (CN22)



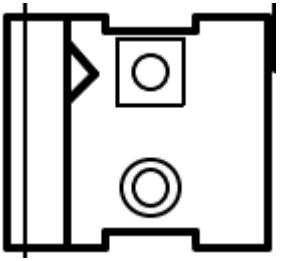
Pin	Signal	Pin	Signal
1	DC_IN	2	GND

2.3.20 Audio Wafer (CN23)



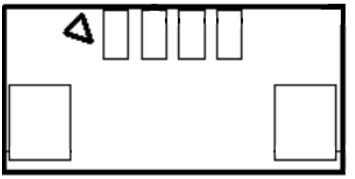
Pin	Signal	Pin	Signal
1	MIC_LR	2	GND
3	LOUT_R	4	NC
5	NC	6	AUDIO-JD
7	NC	8	LOUT_L

2.3.21 12V DC-In Connector (CN26)



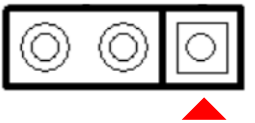
Pin	Signal	Pin	Signal
1	12V	2	GND

2.3.22 Fan Connector (J1)

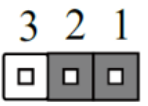


Pin	Signal	Pin	Signal
1	PWM	2	TACH
3	GND	4	12V

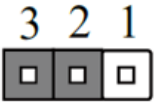
2.3.23 AT/ATX Mode (JP1)



Pin	Signal	Pin	Signal
1	ATX_MODE	2	PWRBTN
3	AT_MODE	-	-



ATX Mode (**Default**)



AT Mode

Chapter 3

Software Installation

3.1 Linux Setup

The UP Squared Pro 7000 supports Linux operating systems (see Chapter 1 for specifications). For instructions on how to install a Linux OS onto your UP Squared Pro 7000, you can find several guides and tutorials in the wiki section of the UP Board website at https://up-board.org for both installing supported distributions as well as porting your own Linux build.

3.2 Windows Drivers Installation

Drivers for the UP Squared Pro 7000 can be downloaded from the UP Board website by following the link https://up-board.org and navigating to the Downloads section, then clicking on the UP Squared Pro 7000 to find all relevant drivers.

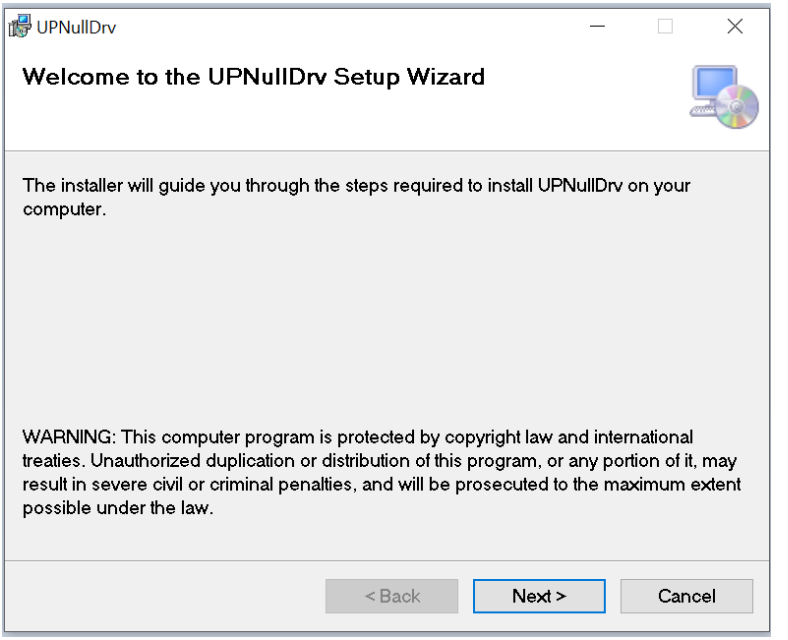
3.3 Dummy Driver Information

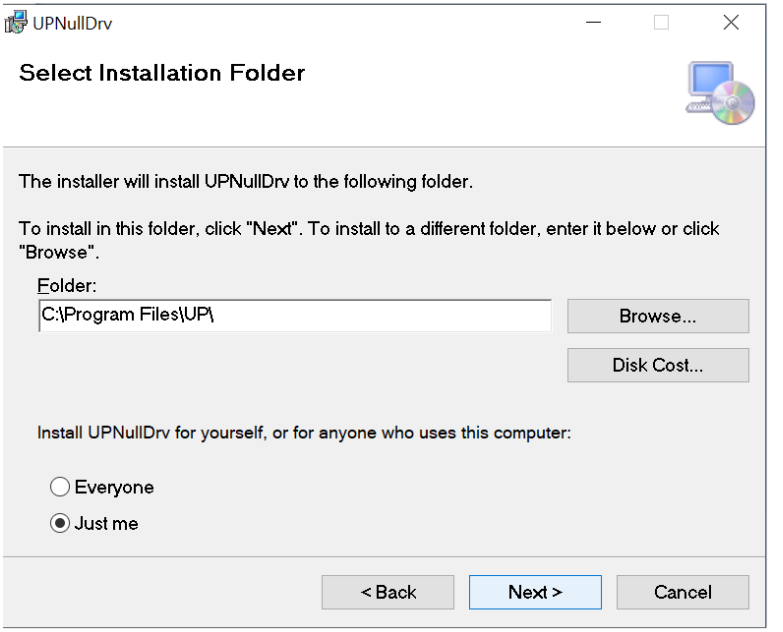
3.3.1 Dummy Driver Installation

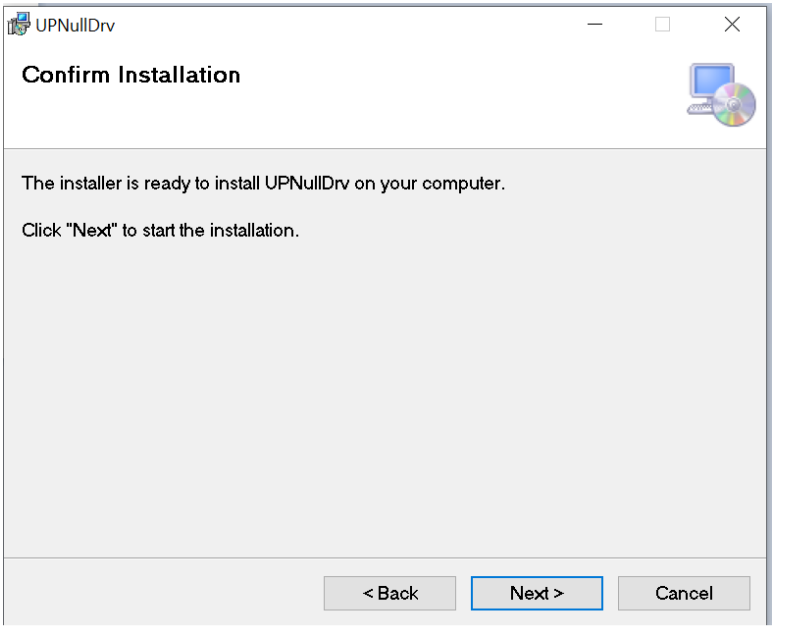
The following instructions detail how to install the dummy driver for your UP Squared Pro 7000 (UPN-ADLN01).

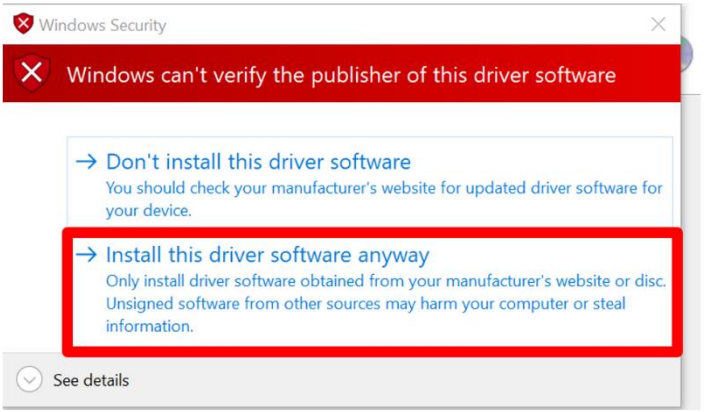
Step 1 – Download **UPNullDrv.msi**.

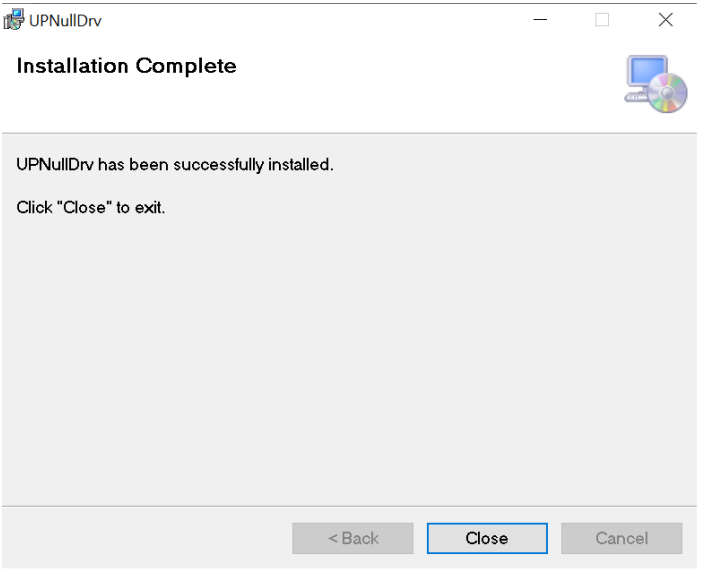
Step 2 – Click **UPNullDrv.msi** and follow the steps as per the below images to install Driver.



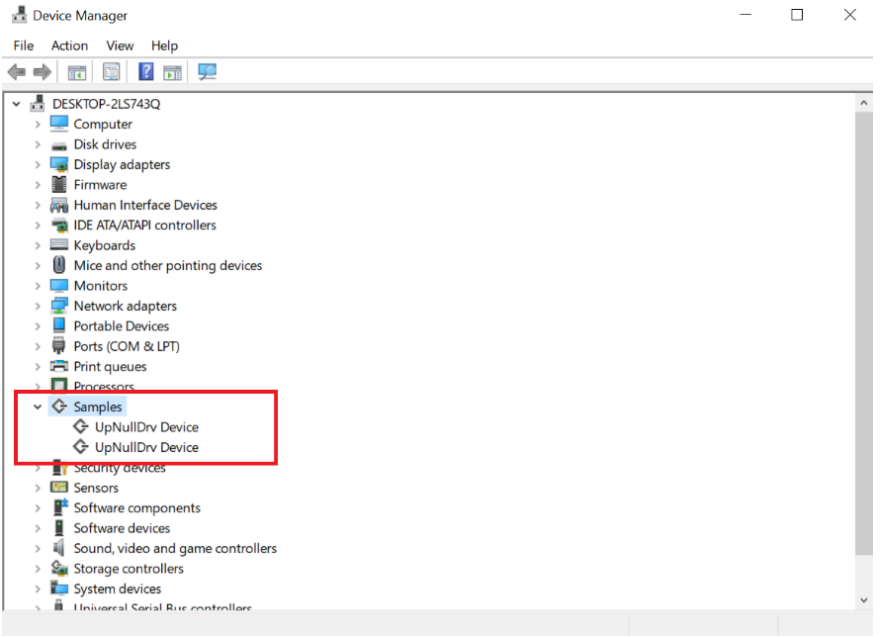

UPNullDrv
Select Installation Folder
The installer will install UPNullDrv to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\UP\
Browse...
Disk Cost...
Install UPNullDrv for yourself, or for anyone who uses this computer:
Everyone
Just me
< Back
Next >
Cancel


UPNullDrv
Confirm Installation
The installer is ready to install UPNullDrv on your computer.
Click "Next" to start the installation.
< Back
Next >
Cancel


Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

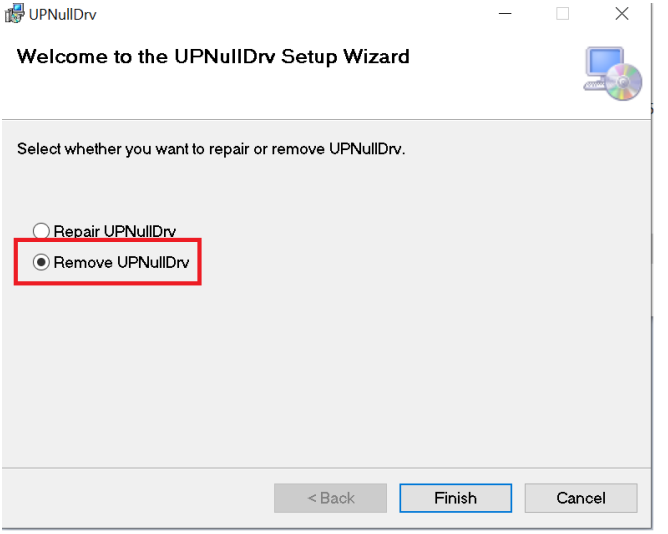

UPNullDrv
Installation Complete
UPNullDrv has been successfully installed.
Click "Close" to exit.
< Back
Close
Cancel

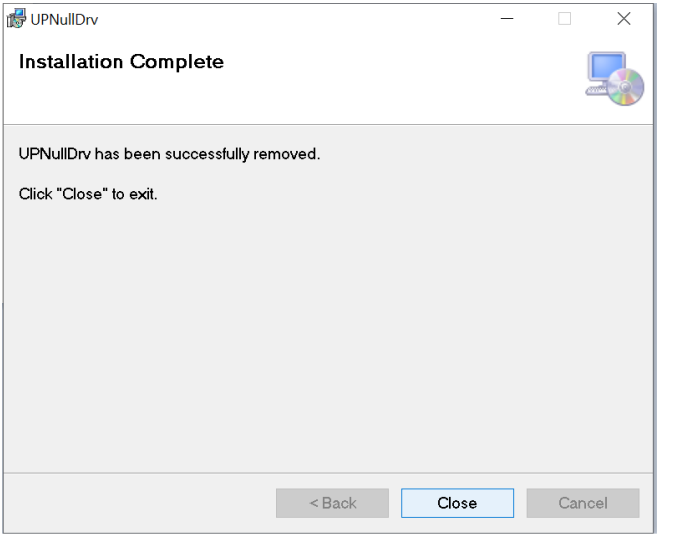
Once you have successfully installed the dummy driver, you will be able to locate it via your system's Device Manager, as shown below.



3.3.2 Uninstalling the Dummy Driver

Click **UPNullDrv.msi** to uninstall driver, then select **Remove UPNullDrv.**





Appendix A

UP Framework SDK Installation

A.1 Introduction

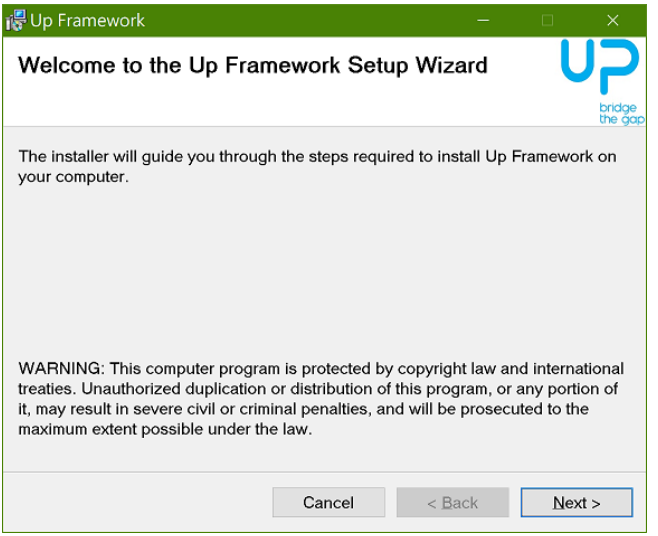
This section provides instructions for the installation of the UP Framework SDK. Instructions are provided for Windows 10 and Windows IoT Core. You can download the latest version of UP Framework SDK from the UP community:

https://downloads.up-community.org/download/up-sdk-for-windows-10-and-windows-iot/

A.2 Installation for Windows 10

Step 1

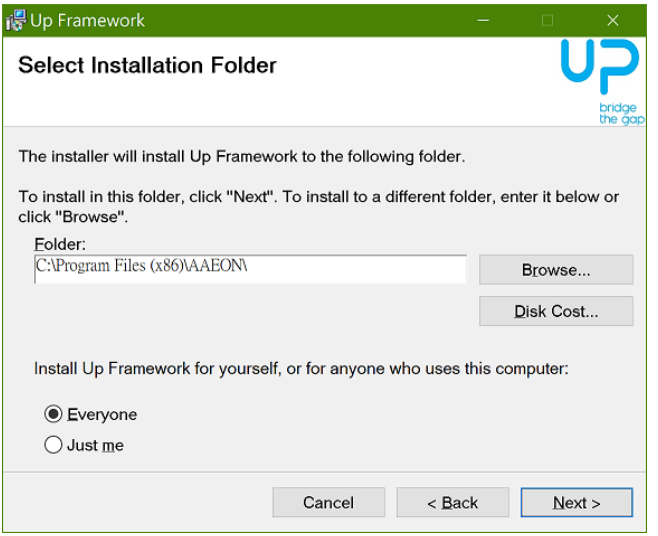
Locate the downloaded file UpFrameworkSetup.msi and run the installer. Press "Next" to begin the setup process.



Step 2

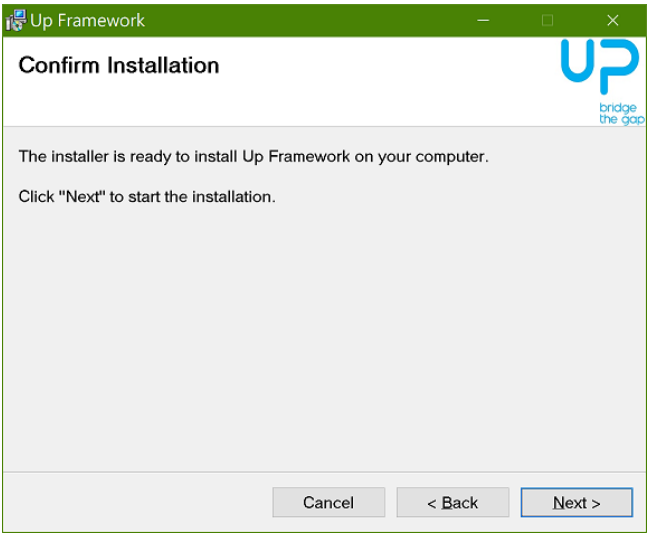
Select the installation folder. Default destination path is C:\Program Files(x86)\AAEON\

You may also choose to install the UP Framework SDK for all users or only the current user. Press "Next" to continue installation.



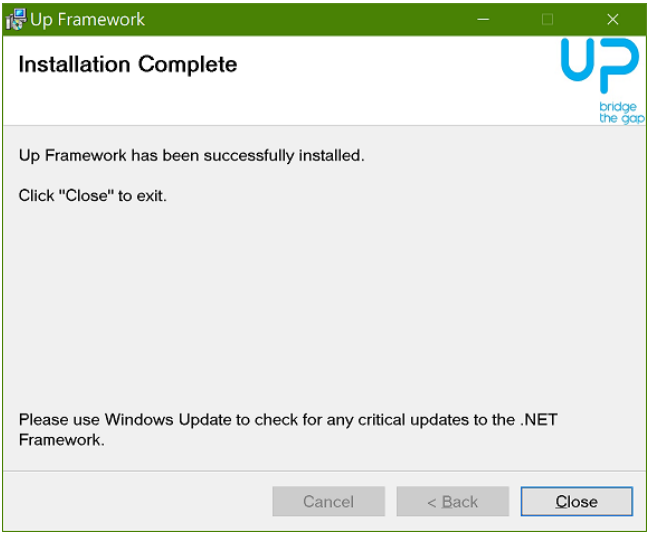
Step 3

Press "Next" to confirm the installation.



Step 4

Press "Close" to exit once setup is complete.



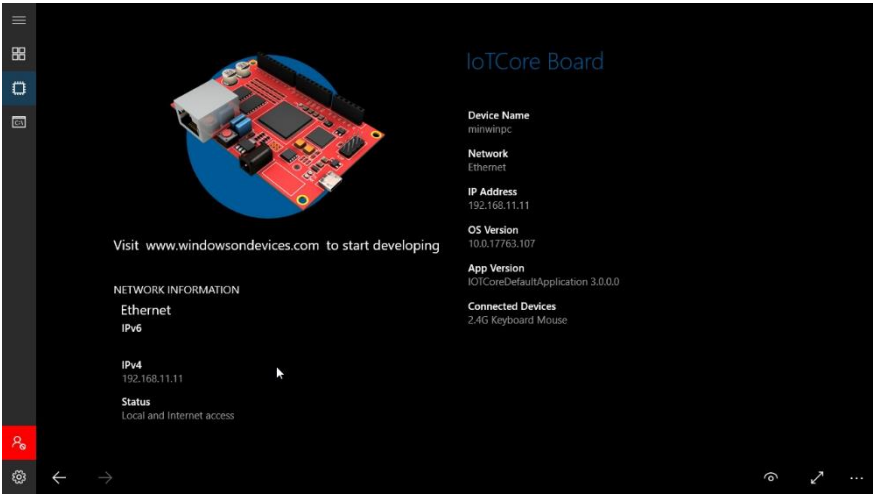
A.3 Installation for Windows IoT Core

Before you begin, make sure you have downloaded and installed the latest version of the Windows IoT Core image from the UP community.
Installation requires using a connected PC with the UP Framework SDK software downloaded and saved.

Note: Make sure the UP IoT Core device is connected to the same network as the PC you are using to install the software from.

Step 1

Turn on your UP IoT Core device and note the IP address at the home screen.

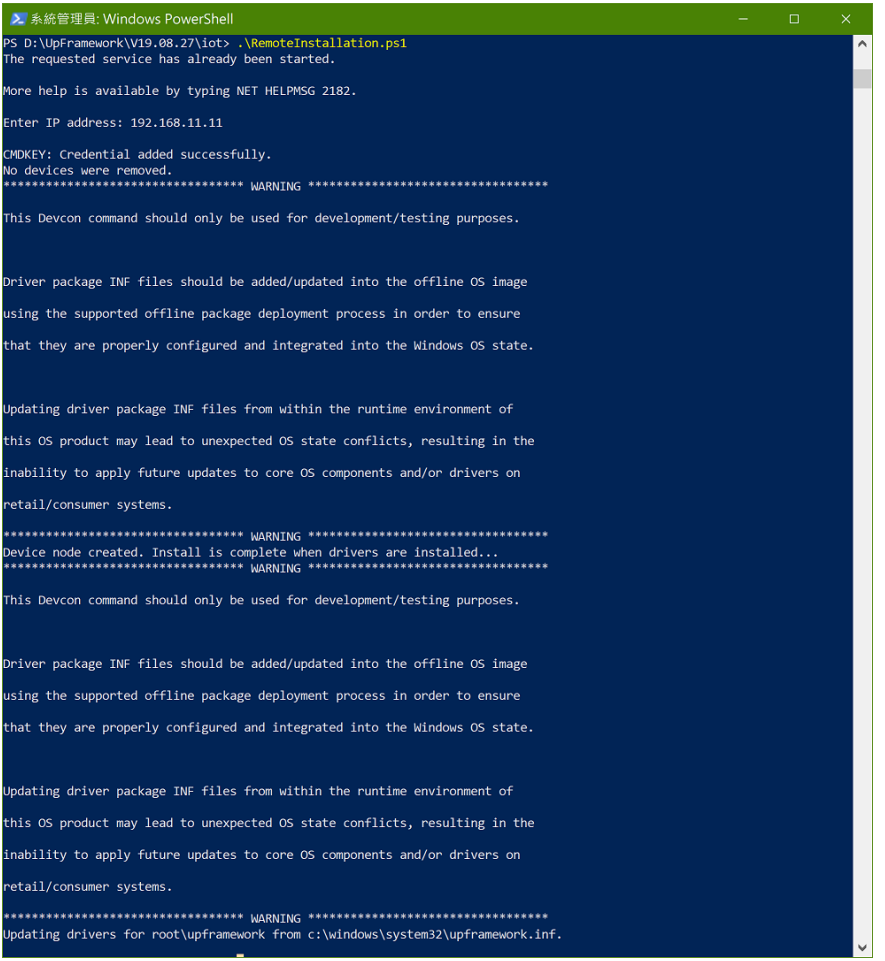


Step 2

Download the UP Framework SDK to your PC and unzip the files.

Open PowerShell as an Administrator. Enter the command **`RemoteInstallation.ps1`** to install the UP Framework SDK on the UP IoT Core device.

Enter the IP address of the UP IoT Core device when prompted.



Note: you must connect Up IoT Core and PC in the same network.

Appendix B

Cables and Connectors

B.1 Cables and Connectors

This table provides detailed information about the cables and connectors used by the UP Squared Pro 7000 (UPN-ADLN01). If you have any questions about the configuration of your board, please contact your AAEON sales representative.

Label	Mating Cable PN	Mating Cable Description
COM1	1701100180	(TF)COM Cable.D-SUB 9P(M).10P1.0mm Housing.15cm
COM2	1701100180	(TF)COM Cable.D-SUB 9P(M).10P1.0mm Housing.15cm
RTC	175011301K	(TF)Lithium Battery.CR2032H.3V.240mAH.w/cable 90mm.Battery power.BP-CR2032-M90-001