

AVerMedia D115W-1 Carrier board and D115WOXB-1/D115WONB-1 Box PC

Applies to NVIDIA® Jetson Orin NX/Orin Nano module



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Table of Contents

1.0	Introduction	9
1.1	Product Specifications	10
1.2	OPTION ACCESSORY	12
2.0	Product Overview.....	13
2.1	Block Diagram for Orin NX	13
2.2	Front View and Back View of Carrier board	14
2.3	Front View and Three-Quarter View of BoxPC	15
2.4	Connector Summary	18
3.0	Feature Description.....	20
3.1	Jetson module Connector	20
3.2	RTC Battery Connector	20
3.3	ATX 4P	20
3.4	DC POWER JACK	21
3.5	HDMI OUTPUT	21
3.6	M.2 E key 2230	22
3.7	M.2 M key 2280	22
3.8	MIPI CSI-2 DPHY Lanes	23
3.9	USB 3.2 Gen 2 Type-A Connector #1 , #2	24
3.10	Gigabit Ethernet Connector	24
3.11	USB type C Connector	26
3.12	20-Pin GPIO expansion	26
3.13	Fan Power connector	27
3.14	DIP Switch #1 (Mode)	27
3.15	DIP Switch #2 (UART)	27
3.16	power Button	28

3.17 Recover Button	28
3.18 WDT function	29
3.19 PSE Board Connector.	29
3.20 OOB Board Connector #1 (NC-SI)	30
3.21 OOB Board Connector #2 (Signal & Power) (Ver.B)	30
3.22 5G Board Connector #1 (Power)	31
3.23 5G Board Connector #2 (Signal)	31
4.0 OOB Hardware Function Settings.....	33
4.1 OOB Board Connector #1 (NC-SI)	33
4.2 OOB Board Connector #2 (Signal & Power) (Ver.B)	33
4.3 DIP Switch #2 (UART)	34
4.4 Gigabit Ethernet connection setting (NC-SI)	34
4.5 Gigabit Ethernet connection setting (RMII)	35
5.0 Installation	36
5.1 BSP Setup Instructions	36
5.2 Software	37
5.3 Force Recovery Mode	43
6.0 OOB Software Settings	44
7.0 Power Consumption	44
8.0 Accessory Drawings	45
8.1 Fan Module/ Adapter/ Power Cord	45
9.0 Dimension Drawings and Assembly Drawings	50
9.1 Dimension Drawings of carrier board	50
9.2 Dimension Drawing of Box PC	52
9.3 Dimension Drawing of D115WOXB-1 + OOB Box PC	54

Preface

Disclaimer

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For more information of our products, pricing, and order placement, please fill in our inquiry form [here](#), we will contact you within 24 hours.

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Revision History

Revision	Date	Updates
Version 1.0	Sep, 06, 2024	1 st Released
Version 1.1	Sep, 30, 2024	Add OOB setting information (4.0 & 6.0)
Version 1.2	Dec, 23, 2024	Add 5pin & 30pin information in the product specifications.
Version 1.3	June 19, 2025	1. Remove 15 pins & 10 pins: support OOB module (optional, sold separately) 2. Add 10 pins x2: support OOB module (optional, sold separately) 3. Change from raspberry pi camera v2 IMX 219/ raspberry pi camera v3 to raspberry pi imx219 & imx477 (V2)
Version 1.4	Aug. 20, 2025	Renew model name
Version 1.5	Sep. 15, 2025	Modify Product Warranty



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Product Warranty

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ESD Warning

Electronic components and circuits are sensitive to Electrostatic Discharge (ESD). When handling any circuit board assemblies including AVerMedia products, it is highly recommended that ESD safety precautions can be observed. ESD safe best practices can include, but are not limited to the following ones.

1. Leave the circuit board in the antistatic package until it is ready to be installed.
2. Use a grounded wrist strap when handling the circuit board. At a minimum, you need to touch a grounded metal object to dissipate any static charge, which may be present on you.
3. Avoid handling the circuit board in the carpeted areas.
4. Handle the board by the edges and avoid the contact  with the components.
5. Only handle the circuit boards in ESD safe areas, which may include ESD floor and/or table mats, wrist strap stations, and ESD safe lab coats.

Safety Precaution:

1. All cautions and warnings on the device should be noted.
2. For safety consideration, do NOT open the device if not a qualified service staff.
3. Place the device on a solid surface during installation to prevent falls.
4. Keep the device away from humidity.
5. Do NOT leave this device in an un-controlled environment with temperatures beyond the device's permitted storage temperature to avoid damage.
6. All adaptors and cables supplied by AVerMedia are verified. Do NOT use any others not supplied by AVerMedia to avoid any malfunction or fires.
7. Make sure the power source matches the power rating of the device.
8. Place the power cord where people cannot step on it. Do not put anything on the power cord.
9. Always completely disconnect the power while the device is not usage or idle for a long time.
10. Disconnect the device from any AC supply before cleaning. While cleaning, use a damp cloth instead of liquid or spray detergents.
11. Make sure the device is installed near a power outlet and easy for accessible.
12. Do not cover the openings on the device to ensure optimal heat dissipation.
13. Watch out the heatsink or heat spreader of the device when the system is running.

14. Never pour any liquid into the openings. This could cause fire or electric shock.
15. The static electricity should be noted while installing any internal components. Consider to use a grounding wrist strap and put all electronic parts in static-shielded containers.

If the following situations occur, please contact our service personnel:

- (1) The device is dropped or damaged
- (2) Damaged power cord or plug
- (3) Exposure to moisture
- (4) Liquid intrusion into the device
- (5) Any obvious signs of damage displayed on the device
- (6) Device is not working as expected or in a manner as described in this manual



1.0 Introduction

AVerMedia D115W-1/D115WOXB-1/D115WONB-1 is a fully featured carrier board/box PC designed for NVIDIA® Jetson Orin NX/Orin Nano modules. AVerMedia provides access to a wide range of latest interfaces on NVIDIA® Jetson Orin NX/Orin Nano modules.

D115W-1/D115WOXB-1/D115WONB-1 provide HDMI video output , two USB 3.2 ports, two GbE RJ-45 port, 20-pin expansion header, and one USB 2.0 type C port for recovery.

Operating with NVIDIA® Jetson Orin NX/Orin Nano modules and the rich I/O functions, AVerMedia D115W-1/D115WOXB-1/D115WONB-1 is the perfect choice in building a compact, high performance AI edge computing platform for the intelligent video analytics applications.

1.1 Product Specifications

Model	D115W-1	
Type	Carrier board	
NVIDIA GPU SoC	NVIDIA® Jetson Orin NX module	
Module Compatibility	NVIDIA® Jetson Orin NANO module	
Networking	2x GbE RJ-45 1x M.2, key E 2230 for wifi	
Display Output	1x HDMI 4Kp60 for Orin NX 1x HDMI 4Kp30 for Orin Nano	
Temperature	Operating temperature -40°C~85°C Option -40°C~ 60°C (PSE 802.3AF) (TBD) Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing	
MIPI Camera Inputs	2x 4 lane MIPI CSI-2, 22 pin FPC 0.5mm Pitch Connector	
USB	2x USB 3.2 Type-A 1x USB 2.0 type C for recovery	
Storage	1x M.2, key M 2280 for SSD	
Expansion Header (EU terminal block)	20-pin: 2x I2C, 2x UART, 4x GPIOs, 1x CAN (EU terminal block)*** 10 pins x2: support OOB module (optional, sold separately) 5-pin & 30-pin wafer: Supports 4G/5G card functions via daughter board	
Daughter Board	PSE Board/OOB Module/5G Daughter Board	
Power requirement	Voltage	DC 9~24V
	Current	DC IN Jack on board: 5A Max
		ATX 4pin: 5A Max
Power Cord	US/JP/EU/UK/TW/AU/CN	
Thermal solution	Heat sink with fan (optional)	
Buttons	Power and Recovery	
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU	
Dimensions	120mm x 90mm(4.72" x 3.54"), Weight: 125 g	
Certifications	CE, FCC, VCCI, KC	

***When equipped with the OOB module, 2x UART will be unavailable.

Model	D115WOXB-1/D115WONB-1	
Type	Box PC	
NVIDIA GPU SoC	NVIDIA® Jetson Orin NX module	
Module Compatibility	NVIDIA® Jetson Orin NANO module	
Networking	2x GbE RJ-45 1x M.2. key E 2230 for wifi	
Display Output	1x HDMI 4Kp60 for Orin NX 1x HDMI 4Kp30 for Orin Nano	
Temperature	Operating temperature -25°C~60°C Option -40°C~40°C (PSE 802.3AF) (TBD) Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing	
MIPI Camera Inputs (Internal)	2x 4 lane MIPI CSI-2, 22 pin FPC 0.5mm Pitch Connector	
USB	2x USB 3.2 Type-A 1x USB 2.0 type C for recovery	
Storage	1x M.2. key M 2280 for SSD	
Expansion Header (EU terminal block)	20-pin: 2x I2C, 2x UART, 4x GPIOs, 1x CAN (EU terminal block)* 10 pins x2: support OOB module (optional, sold separately)** 5-pin & 30-pin wafer: Supports 4G/5G card functions via daughter board	
Daughter Board	PSE Board/OOB Module/5G Daughter Board	
Power requirement	Voltage	DC 9~24V
	Current	DC IN Jack on board: 5A Max
		ATX 4pin: 5 A Max
Power Cord	US/JP/EU/UK/TW/AU/CN	
Thermal solution	Fanless solution	
Buttons	Power and Recovery	
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU	
Dimensions	126mm x 96mm x 73.9mm(4.96" x 3.78" x 2.91"), weight : 1kg	
Certifications	CE, FCC, VCCI, KC	

*When equipped with the OOB module, 2x UART will be unavailable.

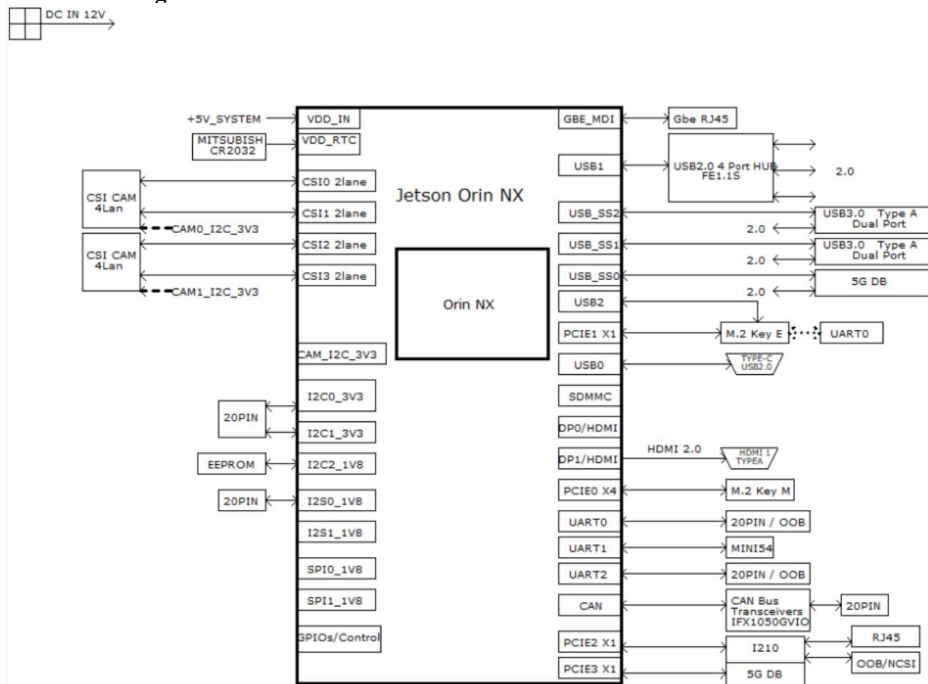
**With the optional OOB module, the default configuration uses Ethernet 2 on the D115W for OOB management, rendering the OOB-Ethernet on the OOB module inactive. Alternatively, we offer another option that allows users to manage via the Ethernet on the OOB module, changing the box PC configuration from 2 RJ45 ports to a total of 3 RJ45 ports, including the RJ45 on the OOB module.

1.2 OPTION ACCESSORY

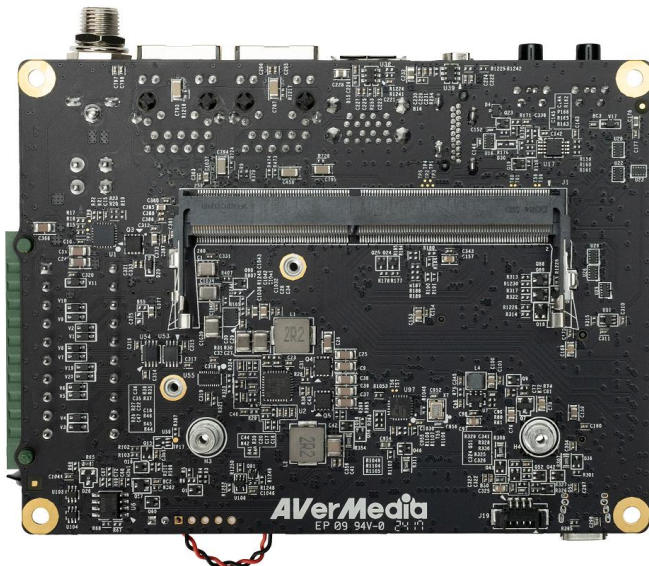
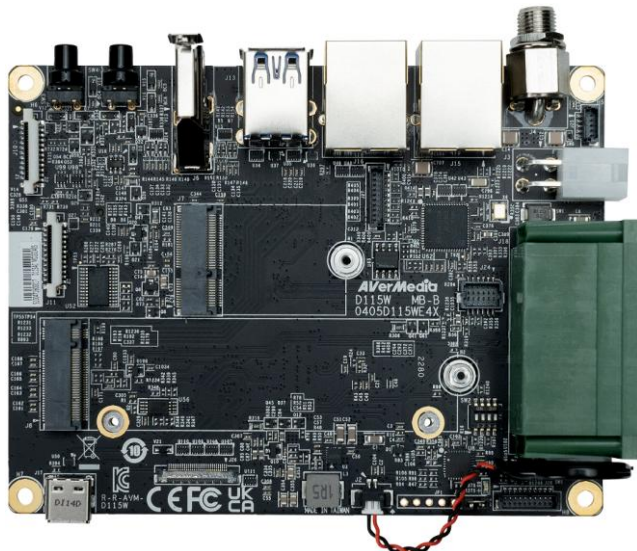
Item	D115W-1 D115WOXB-1/D115WONB-1
NVIDIA® Jetson	NVIDIA® Jetson Orin NX/Orin Nano
Power cord	EU/JP/TW/US/CN/UK/AU
MIPI Camera (internal I/O)	For 22 pin MIPI connector 1. raspberry pi imx219 & imx477 (V2) 2. Manufacturer: APPRO.PHO ■ B-04: IMX179(8M)MIPI, 1080P(30fps) ■ C-04: IMX290(2M)MIPI, 1080P(30fps) ■ C-05: IMX290(2M)+ISP(YUV), 1080P(30fps)

2.0 Product Overview

2.1 Block Diagram for Orin NX



2.2 Front View and Back View of Carrier board



2.3 Front View and Three-Quarter View of BoxPC

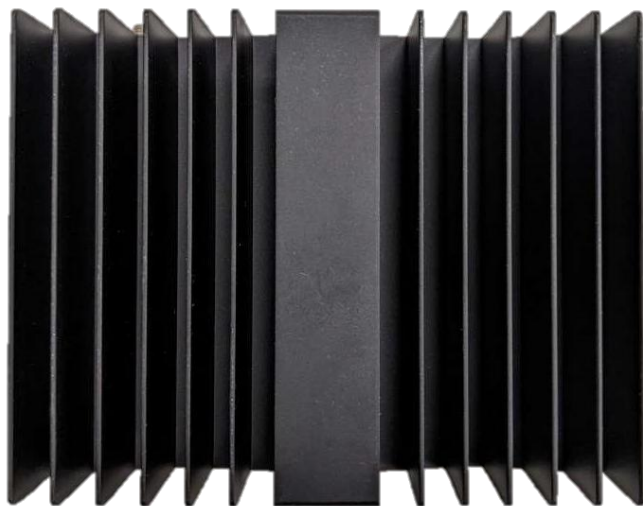
Left view



Right view



Top view



Front view



Rear view



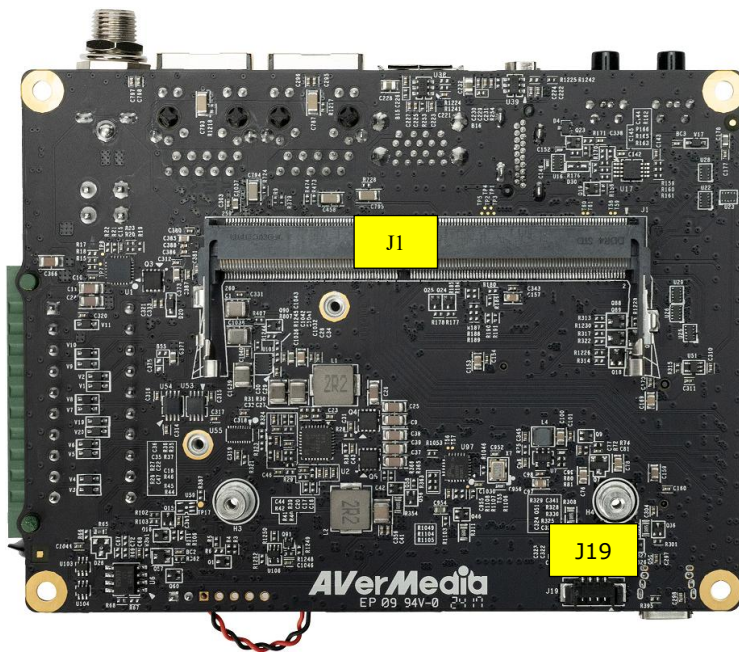
Bottom view



2.4 Connector Summary

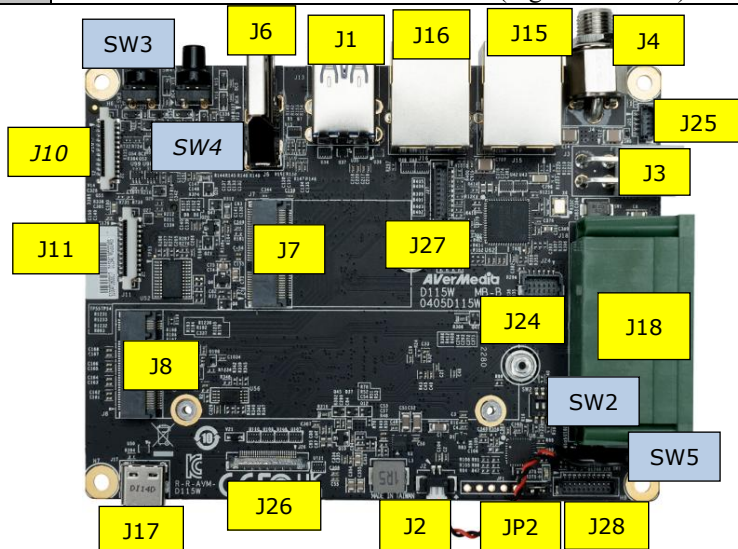
Top View Interface

J1	SO-DIMM 260-pin 90° SMD Socket(H-9.2mm)
J19	Fan Wafer



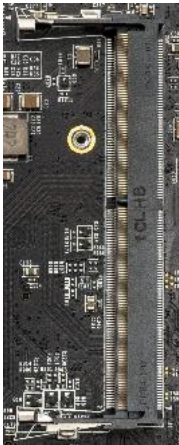
Bottom View Interface

J2	External RTC Battery wafer
J3	Input Power – 4.2mm Pitch 90° ATX Power 4P
J4	OD 5.5/2.5 DC Jack with Lock
J6	HDMI Type-A Vertical Side Connector with lock (Female)
J7	M.2 E-Key Socket
J8	M.2 M-Key Socket
J10	FPC connector for 4-lane MIPI CSI-2
J11	FPC connector for 4-lane MIPI CSI-2
J13	USB 3.2 Gen2 Dual Port Type A Connector
J15	Gigabit Ethernet Connector w/LEDs
J16	Gigabit Ethernet Connector w/LEDs (PSE Option)
J17	USB type C
J18	20-pin Expansion Terminal Block
SW2	DIP switch #1 (Mode)
SW3	Power Button w/LEDs
SW4	Recovery Button w/LEDs
JP2	WDT function setting
J24	PSE Board Connector (Maximum 15W)
SW5	DIP switch #2 (UART)
J25	5G Board Connector #1 (Power)
J26	5G Board Connector #2 (Signal)
J27	OOB Board Connector #1 (NC-SI)
J28	OOB Board Connector #2 (Signal & Power)

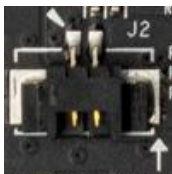


3.0 Feature Description

3.1 Jetson module Connector

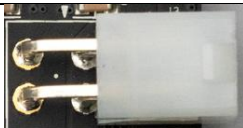
Function	Provide connection with NVIDIA® Jetson SOM	
Location	J1	
Type Description	SOCKET_DDR4 SO-DIMM_260PIN_90°	
Manufacturer and Part Number	Foxconn ASAA826-EASB0-7H	
Mating Connector	NVIDIA® Jetson Orin NX/Orin Nano	
Pinout	Please refer to NVIDIA Jetson System-on-Module datasheet for pinout details.	
Remarks	https://developer.nvidia.com/ embedded/downloads	

3.2 RTC Battery Connector

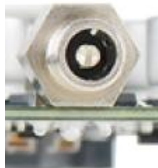
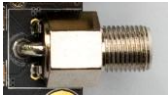
Function	RTC battery for module			
Location	J2			
Type Description	1.25mm wire-to-board header 02P type			
Manufacturer and Part Number	宏致_ACES 50271-00201-001			
Mating Connector	Molex 51021-8602			
Pinout	Pin #	Description		
	PIN1	GND		
	PIN2	3V Power		
Remarks	RTC Battery: KTS, CR2032 3V			

3.3 ATX 4P

Function	ATX 4P	
Location	J3	
Type Description	WAFER_2*2PIN	

Manufacturer and Part Number	FPWD-42R2-04NAT		
Mating Connector	power plug cable		
Pinout	Pin Number	Description	
	1	GND	
	2	GND	
	3	9-24V Power	
	4	9-24V Power	
Remarks	None		

3.4 DC POWER JACK

Function	DC power input		 
Location	J4		
Type Description	2.5 mm power jack		
Manufacturer and Part Number	JKCR, DCD 020 105B		
Mating Connector	Any 2.5mm power plug cable		
Pinout	Pin Number	Description	
	1	9-24V Power	
	2	GND	
	3	GND	
	Remarks	NA	

3.5 HDMI OUTPUT

Function	HDMI output connector	
Location	J6	
Type Description	HDMI Type-A female connector	
Manufacturer and	Compupack,	

Part Number	ACNHM220028-001	
Mating Connector	Any HDMI standard Type-A interface cable or device.	
Pinout	Please refer to HDMI standard.	
Remarks	None	

3.6 M.2 E key 2230

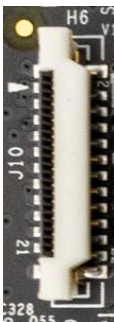
Function	M.2 E key
Location	J7
Type Description	SOCKET_M.2-KEY E_75PIN_90°_SMD
Manufacturer and Part Number	宏致_ACES 51750-0750P-005
Mating Connector	Any M.2 E key 2230 card standard interface device.
Pinout	Please refer to M.2 E key card standard for the pinout details.
Remarks	Support PCIe Gen4 x1 & USB 2.0 for Orin NX Support PCIe Gen3 x1 & USB 2.0 for Orin Nano

3.7 M.2 M key 2280

Function	M.2 M key
Location	J8
Type Description	SOCKET_M.2-KEY M_75PIN_90°_SMD
Manufacturer and Part Number	宏致_ACES 51757-0750C-012_P0.5 mm-H5.5 mm
Mating Connector	Any M.2 M key 2280 card standard interface device.
Pinout	Please refer to M.2 M key card standard for the pinout details.
Remarks	Support PCIe Gen4 x4 for Orin NX Support PCIe Gen3 x4 for Orin Nano



3.8 MIPI CSI-2 DPHY Lanes

Function	MIPI camera module connector			
Location	J10 , J11			
Type	ZIF FPC Conn._22PIN_0.5 mm_90°			
Description				
Manufacturer and Part Number	宏致_ACES 50554-02241-003			
Mating Connector	4 Lane MIPI CSI-2 camera connector (22Pin)			
Pinout	J10			
	PIN#	Description	PIN#	Description
	Pin1	+3V3_MIPI	Pin12	CSI1_D0_N
	Pin2	CAM0_I2C_SDA	Pin13	GND
	Pin3	CAM0_I2C_SCL	Pin14	CSI0_CLK_P
	Pin4	GND	Pin15	CSI0_CLK_N
	Pin5	CAM0_MCLK	Pin16	GND
	Pin6	CAM0_PWDN	Pin17	CSI0_D1_P
	Pin7	GND	Pin18	CSI0_D1_N
	Pin8	CSI1_D1_P	Pin19	GND
	Pin9	CSI1_D1_N	Pin20	CSI0_D0_P
	Pin10	GND	Pin21	CSI0_D0_N
	Pin11	CSI1_D0_P	Pin22	GND
	J11			
	PIN#	Description	PIN#	Description
	Pin1	+3V3_MIPI	Pin12	CSI3_D0_N
	Pin2	CAM1_I2C_SDA	Pin13	GND
	Pin3	CAM1_I2C_SCL	Pin14	CSI2_CLK_P
	Pin4	GND	Pin15	CSI2_CLK_N
	Pin5	CAM1_MCLK	Pin16	GND
	Pin6	CAM1_PWDN	Pin17	CSI2_D1_P
	Pin7	GND	Pin18	CSI2_D1_N
	Pin8	CSI3_D1_P	Pin19	GND
	Pin9	CSI3_D1_N	Pin20	CSI2_D0_P
	Pin10	GND	Pin21	CSI2_D0_N
	Pin11	CSI3_D0_P	Pin22	GND

3.9 USB 3.2 Gen 2 Type-A Connector #1 , #2

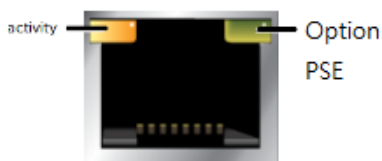
Function	USB 3.2 Gen 2 Type-A connector #1 #2	J13 
Location	J13	
Type Description	Dual-port USB 3.2 Gen 2 Type-A female connector	
Manufacturer and Part Number	冠泰, CU3B-AFR15U-096H (J13)	
Mating Connector	Any USB 3.2 standard Type-A interface cable or device.	
Pinout	Please refer to USB 3.2 Gen 2 standard.	
Remarks	None	

3.10 Gigabit Ethernet Connector

Function	1Gb single-port Ethernet connector, used to connect to the host system.	 
Location	J15, J16	
Type Description	RJ45 with integrated magnetics	
Manufacturer and Part Number	建倚, MJ45-111QC4A-GY-S307 1G-LEFT(G)+RIGHT(Y)-DOWN	
Mating Connector	Any standard 1Gb Ethernet mating connector can be applicable.	
Pinout	Comply with Ethernet standards.	
LED indicator		

J16

Activity LED (left)		Link/Speed LED (right)	
Status	Description	Status	Description
Yellow Blinking	Data transmission or receiving is occurring	Green	PSE Ready
Off	No data transmission or receiving is occurring	Off	W/O PSE



J15

Activity LED (left)		Link/Speed LED (right)	
Status	Description	Status	Description
Yellow Blinking	Data transmission or receiving is occurring	Green	1000M
Off	No data transmission or receiving is occurring	Off	100M

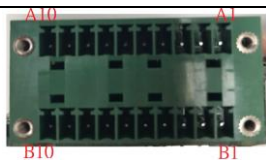
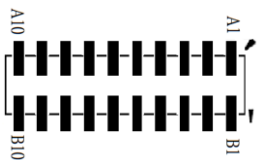
Remarks

J15 is via I210 Ethernet controller and J16 is directly from NVIDIA Jetson SOM.
PSE(Maximum 15W) Option: J16

3.11 USB type C Connector

Function	BSP Installation as recovery mode	
Location	J17	
Type Description	JACK_USB_C TYPE(F)_90°_PIP-L1.45 mm	
Manufacturer and Part Number	宏致 ACES, 57988-0240D-001	
Mating Connector	Any USB type C standard interface cable or device.	
Pinout	Please refer to USB type C standard.	
Remarks	USB2.0 Only(Device Mode)	

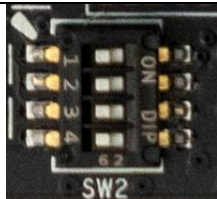
3.12 20-Pin GPIO expansion

Function	General-purpose input/output																																																																
Location	J18																																																																
Type Description	Expansion I/O Connector																																																																
Manufacturer and Part Number	ME252-35020-1																																																																
Mating Connector	20-Pin GPIO expansion																																																																
Pinout	<table><thead><tr><th>Address</th><th>Pin Name</th><th colspan="2">20-pin Index (Devkit Index)</th><th>Pin Name</th><th>Address</th></tr></thead><tbody><tr><td></td><td>5V</td><td>A1</td><td>B1</td><td>3V3</td><td></td></tr><tr><td></td><td>GND</td><td>A2</td><td>B2</td><td>GND</td><td></td></tr><tr><td rowspan="2">/dev/ttyTCU0</td><td>UART2_TXD_3V3</td><td>A3</td><td>B3</td><td>I2C1_SDA</td><td rowspan="2">/dev/i2c-7</td></tr><tr><td>UART2_RXD_3V3</td><td>A4</td><td>B4</td><td>I2C1_SCL</td></tr><tr><td></td><td>GND</td><td>A5</td><td>B5</td><td>I2C0_ID_SDA</td><td rowspan="2">/dev/i2c-1</td></tr><tr><td rowspan="2">/dev/ttyTHS1</td><td>UART0_TXD_3V3</td><td>A6</td><td>B6</td><td>I2C0_ID_SCL</td></tr><tr><td>UART0_RXD_3V3</td><td>A7</td><td>B7</td><td>I2S0_SCLK_LS</td><td>gpio398</td></tr><tr><td rowspan="2">can0 (Native CAN)</td><td>CANL0</td><td>A8</td><td>B8</td><td>I2S0_SDOUT_LS</td><td>gpio399</td></tr><tr><td>CANH0</td><td>A9</td><td>B9</td><td>I2S0_SDIN_LS</td><td>gpio400</td></tr><tr><td></td><td>N/A</td><td>A10</td><td>B10</td><td>I2S0_LRCK_LS</td><td>gpio401</td></tr></tbody></table>					Address	Pin Name	20-pin Index (Devkit Index)		Pin Name	Address		5V	A1	B1	3V3			GND	A2	B2	GND		/dev/ttyTCU0	UART2_TXD_3V3	A3	B3	I2C1_SDA	/dev/i2c-7	UART2_RXD_3V3	A4	B4	I2C1_SCL		GND	A5	B5	I2C0_ID_SDA	/dev/i2c-1	/dev/ttyTHS1	UART0_TXD_3V3	A6	B6	I2C0_ID_SCL	UART0_RXD_3V3	A7	B7	I2S0_SCLK_LS	gpio398	can0 (Native CAN)	CANL0	A8	B8	I2S0_SDOUT_LS	gpio399	CANH0	A9	B9	I2S0_SDIN_LS	gpio400		N/A	A10	B10	I2S0_LRCK_LS
Address	Pin Name	20-pin Index (Devkit Index)		Pin Name	Address																																																												
	5V	A1	B1	3V3																																																													
	GND	A2	B2	GND																																																													
/dev/ttyTCU0	UART2_TXD_3V3	A3	B3	I2C1_SDA	/dev/i2c-7																																																												
	UART2_RXD_3V3	A4	B4	I2C1_SCL																																																													
	GND	A5	B5	I2C0_ID_SDA	/dev/i2c-1																																																												
/dev/ttyTHS1	UART0_TXD_3V3	A6	B6	I2C0_ID_SCL																																																													
	UART0_RXD_3V3	A7	B7	I2S0_SCLK_LS	gpio398																																																												
can0 (Native CAN)	CANL0	A8	B8	I2S0_SDOUT_LS	gpio399																																																												
	CANH0	A9	B9	I2S0_SDIN_LS	gpio400																																																												
	N/A	A10	B10	I2S0_LRCK_LS	gpio401																																																												
Remarks	GPIO uses 3.3V																																																																

3.13 Fan Power connector

Function	Fan Power Connector			
Location	J19			
Type Description	WAFER_1*4PIN_1.25 mm_90°			
Manufacturer and Part Number	ACES 50271-0040N-001_BLACK			
Mating Connector	ACES 50276-004H0H0-001			
Pinout	Pin #	Description		
	PIN 1	GND		
	PIN 2	+5V Power		
	PIN 3	FAN_TACH		
	PIN 4	FAN_PWM		
Remarks	None			

3.14 DIP Switch #1 (Mode)

Function	Fan PWM controller/Auto Power on			
Location	SW2			
Type Description	4 SPST DIP switch			
Manufacturer and Part Number	DIPTRONICS IN OFF-SWITCHING 0.025A/24VDC			
Pinout	Position No.	Position Description	Switch ON	Switch OFF
	1(SW1)	Power ON mode	Always Power ON	Auto Power ON
	2(SW2)	CAN0_Terminal	With 120 ohm Terminal	W/O 120 ohm Terminal
	3(SW3)	Power-Up / Start-up Control	"ATX Mode" Power Button Press Required	"AT Mode" - Automatic Start-up Enabled
	4(SW4)	PWM Fan Control	FAN Always ON	FAN PWM Enabled (SW Controlled)
Remark	Default SW2 all OFF			

3.15 DIP Switch #2 (UART)

Function	OOB UART/IO UART	
Location	SW5	
Type Description	2 SPST DIP switch	
Manufacturer and Part Number	DIPTRONICS IN OFF-SWITCHING 0.025A/24VDC	

Pinout	Position No	Position Description	Switch ON	Switch OFF
	1(SW1)	UART0	OOB	IO
	2(SW2)	UART2	OOB	IO
Remark	Default SW5 all OFF			

3.16 power Button

Function	Power button	 	
Location	SW3		
Type Description	Button		
Manufacturer and Part Number	冠泰 Champway, LS67AK-NBR-A-R2KA9		
Pinout	N/A		
Remark	• When D115W is in "Button Power Mode," pressing the button will initiate the boot-up sequence. • When D115W is ON, pressing the button will display the Power Off GUI. If no operation is performed, the system will automatically power off in 60 seconds. • When D115W is ON, holding the button for more than 5 seconds will force a full system power down.		

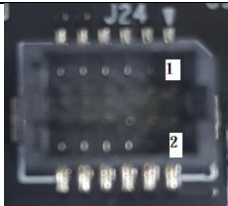
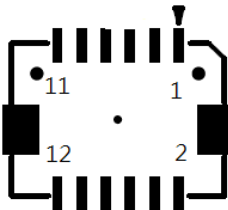
3.17 Recover Button

Recover Button		
Function	Recover button	 
Location	SW4	
Type Description	Button	
Manufacturer and Part Number	冠泰 Champway, LS67AK-NBR-A-R2KA9	
Pinout	N/A	
Remark	• No function during normal operation. • The SOM will enter recovery mode when held down during power ON	

3.18 WDT function

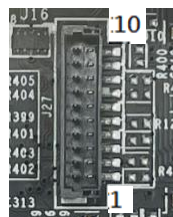
Function	WDT function			
Location	JP2			
Type Description	HEADER_PIN_1*2PIN_2.54 mm _180°_DIP			
Manufacturer and Part Number	頻銳_210-81-02GB01			
Pinout	Pin 1,2	Description		
	Open	WDT enable		
	Short	WDT disable		
Remark	None			

3.19 PSE Board Connector.

Function	PSE board connector.																																
Location	J24																																
Type Description	WAFER_2*6PIN_1 mm_180°_SMD																																
Manufacturer and Part Number	ACES 50238-01241-001																																
Pinout	<table><thead><tr><th>PIN#</th><th>Description</th><th>PIN#</th><th>Description</th></tr></thead><tbody><tr><td>Pin1</td><td>PWR_IN</td><td>Pin2</td><td>GND</td></tr><tr><td>Pin3</td><td>PWR_IN</td><td>Pin4</td><td>GND</td></tr><tr><td>Pin5</td><td>54V</td><td>Pin6</td><td>SYS_RST*</td></tr><tr><td>Pin7</td><td>54V</td><td>Pin8</td><td>I2C1_SCL *</td></tr><tr><td>Pin9</td><td>PortN_OUT0</td><td>Pin10</td><td>I2C1_SDA</td></tr><tr><td>Pin11</td><td>POE_P0</td><td>Pin12</td><td>3V3</td></tr></tbody></table>				PIN#	Description	PIN#	Description	Pin1	PWR_IN	Pin2	GND	Pin3	PWR_IN	Pin4	GND	Pin5	54V	Pin6	SYS_RST*	Pin7	54V	Pin8	I2C1_SCL *	Pin9	PortN_OUT0	Pin10	I2C1_SDA	Pin11	POE_P0	Pin12	3V3	
	PIN#	Description	PIN#	Description																													
	Pin1	PWR_IN	Pin2	GND																													
	Pin3	PWR_IN	Pin4	GND																													
	Pin5	54V	Pin6	SYS_RST*																													
	Pin7	54V	Pin8	I2C1_SCL *																													
	Pin9	PortN_OUT0	Pin10	I2C1_SDA																													
	Pin11	POE_P0	Pin12	3V3																													
Remarks	For optional PSE board																																

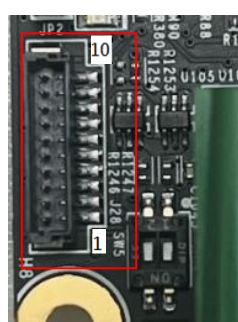
3.20 OOB Board Connector #1 (NC-SI)

Function	OOB board connector #1 (NC-SI)	
Location	J27	
Type	WAFER_1*10PIN_1 mm_180°_SMD	
Description		
Manufacturer and Part Number	ACES 50228-01071-001	
Mating Connector	ACES 50233-010H0H0-001	
Pinout	PIN#	Description
	Pin1	NC SI TXD0
	Pin2	NC SI TXD1
	Pin3	NC SI TX EN
	Pin4	GND
	Pin5	NC SI CLK IN
	Pin6	GND
	Pin7	NC SI RXD0
	Pin8	NC SI RXD1
	Pin9	NC SI CRS DV
	Pin10	GND
Remarks	For optional OOB board via RJ45 J15(I210 NC-SI)	



3.21 OOB Board Connector #2 (Signal & Power) (Ver.B)

Function	OOB board connector #2 (signal & power)	
Location	J28	
Type	WAFER_1*10PIN_1 mm_180°_SMD	
Description		
Manufacturer and Part Number	ACES 50228-01071-001	
Mating Connector	ACES 50233-010H0H0-001	
Pinout	PIN#	Description
	Pin1	GND



	Pin2	NA	
	Pin3	UART2_RX (Debug UART)	
	Pin4	UART2_TX (Debug UART)	
	Pin5	UART0_RX (Auto-link)	
	Pin6	UART0_TX (Auto-link)	
	Pin7	PWR_DET	
	Pin8	RST_SW	
	Pin9	PWR_SW	
	Pin10	+5V_STANDBY	
Remarks	For optional OOB board		

3.22 5G Board Connector #1 (Power)

5G Board Connector #1 (Power)														
Function	5G board connector #1 (power)													
Location	J25													
Type	WAFER_1*5PIN_1 mm_180°_SMD													
Description														
Manufacturer and Part Number	ACES 50228-00571-001													
Mating Connector	ACES 50233-005H0H0-001													
Pinout	<table><tr><td>PIN#</td><td>Description</td></tr><tr><td>Pin1</td><td>DC</td></tr><tr><td>Pin2</td><td>DC</td></tr><tr><td>Pin3</td><td>CARRIER_PWR_ON</td></tr><tr><td>Pin4</td><td>GND</td></tr><tr><td>Pin5</td><td>GND</td></tr></table>		PIN#	Description	Pin1	DC	Pin2	DC	Pin3	CARRIER_PWR_ON	Pin4	GND	Pin5	GND
	PIN#	Description												
	Pin1	DC												
	Pin2	DC												
	Pin3	CARRIER_PWR_ON												
	Pin4	GND												
Pin5	GND													
Remarks	For optional 5G daughter board, power only(9-24V)													



3.23 5G Board Connector #2 (Signal)

5G Board Connector #2 (Signal)			
Function	5G board connector #2 (signal)		
Location	J26		
Type	WAFER_30PIN_0.4 mm_90°_SMD		
Description			
Manufacturer and Part	旺昌_KEL USL00-30L IDC		

Number				
Mating Connector	旺昌_KEL USL20-30S			
Pinout				
	PIN#	Description	PIN#	Description
	Pin1	GND	Pin16	USB DSP3 DP
	Pin2	PCIE3 RX0 N	Pin17	USB DSP3 DM
	Pin3	PCIE3 RX0 P	Pin18	GND
	Pin4	GND	Pin19	USB DSP3 SSRX N
	Pin5	PCIE3 TX0 N	Pin20	USB DSP3 SSRX P
	Pin6	PCIE3 TX0 P	Pin21	GND
	Pin7	GND	Pin22	USB DSP3 SSTX N
	Pin8	PCIE3 CLK N	Pin23	USB DSP3 SSTX P
	Pin9	PCIE3 CLK P	Pin24	GND
	Pin10	GND	Pin25	LTE PWR
	Pin11	PCIE3 RST	Pin26	5G RST
	Pin12	PCIE3 CLKREQ	Pin27	AIRPLANE CTRL
	Pin13	PCIE WAKEN	Pin28	GNSS CTRL
	Pin14	GND	Pin29	+1V8 SYSTEM
	Pin15	GND	Pin30	GND
Remarks	For optional 5G daughter board			
	Support USB3.2 & USB 2.0 & PCIe Gen3 x1			

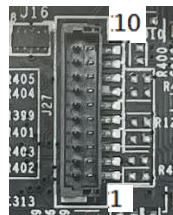
Other Switches and Jumpers

Other switches and jumpers listed on the boards but not mentioned in this manual are reserved for the internal use by AVerMedia. They are not open to the client application.

4.0 OOB Hardware Function Settings.

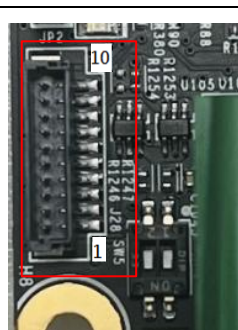
4.1 OOB Board Connector #1 (NC-SI)

Function	OOB board connector #1 (NC-SI)	
Location	J27	
Type	WAFER_1*10PIN_1 mm_180°_SMD	
Description		
Manufacturer and Part Number	ACES 50228-01071-001	
Mating Connector	ACES 50233-010H0H0-001	
Pinout	PIN#	Description
	Pin1	NC SI TXD0
	Pin2	NC SI TXD1
	Pin3	NC SI TX EN
	Pin4	GND
	Pin5	NC SI CLK IN
	Pin6	GND
	Pin7	NC SI RXD0
	Pin8	NC SI RXD1
	Pin9	NC SI CRS DV
	Pin10	GND
Remarks	For optional OOB board via RJ45 J15(I210 NC-SI)	



4.2 OOB Board Connector #2 (Signal & Power) (Ver.B)

Function	OOB board connector #2 (signal & power)	
Location	J28	
Type	WAFER_1*10PIN_1 mm_180°_SMD	
Description		
Manufacturer and Part Number	ACES 50228-01071-001	
Mating Connector	ACES 50233-010H0H0-001	
Pinout	PIN#	Description
	Pin1	GND



	Pin2	NA	
	Pin3	UART2 RX (Debug UART)	
	Pin4	UART2 TX (Debug UART)	
	Pin5	UART0 RX (Auto-link)	
	Pin6	UART0 TX (Auto-link)	
	Pin7	PWR DET	
	Pin8	RST SW	
	Pin9	PWR SW	
	Pin10	+5V STANDBY	
Remarks	For optional OOB board		

4.3 DIP Switch #2 (UART)

DIP Switch #2 (UART)				
Function	OOB UART/IO UART			
Location	SW5			
Type Description	2 SPST DIP switch			
Manufacturer and Part Number	DIPTRONICS IN OFF-SWITCHING 0.025A/24VDC			
Pinout	Position No.	Position Description	Switch ON	Switch OFF
	1(SW1)	UART0	OOB	IO
	2(SW2)	UART2	OOB	IO
Remark	Default SW5 all OFF			



4.4 Gigabit Ethernet connection setting (NC-SI)

When OOB NC-SI functionality is supported, it means that both OOB (Out-of-Band) and inband communication share the same network cable. Please note that you only need to connect to Ethernet 2 and do not need to connect to the OOB port.



4.5 Gigabit Ethernet connection setting (RMII)

When OOB RMII functionality is supported, please note that both Ethernet 2 and the OOB port need to be connected.



5.0 Installation

1. Check and ensure all the external system power supplies are turned off.
2. Install the USB type-C cable to Jetson platform connector.
3. Press and hold on the Recover button.
4. Connect the power cord to the box PC.

5.1 BSP Setup Instructions

BSP (board support package) file: D115WOX-R*.*.tar.gz for D115WOXB

If you want to get the BSP download link, Please contact with AVerMedia FAE.

Default login username/password of the BSP is nvidia/nvidia

If you have difficulties to access the BSP download link, please visit AVerMedia website at <https://www.avermedia.com/professional/download>, or contact technical support at https://www.avermedia.com/professional/technical_support or e-mail us at esusupport@avermedia.com for further assistance.

BSP Installation steps for NVIDIA Jetson board: (Important Note: Please backup your personal files before re-flashing BSP)

After you download the BSP file and put the file in a Linux PC, please refer to the steps below to re-flash BSP.

1. Let the JETSON Orin NX initiate recovery mode.

You have to keep pressing “Recovery” button and then power on the NVIDIA Jetson board to initiate recovery mode.

When connecting a NVIDIA Jetson board to a Linux PC via a USB type-C to USB cable, you can check kernel messages with `dmesg` command in the Linux PC.

Once you see these similar messages in the kernel messages, this means that the NVIDIA Jetson board is in the recovery mode.

```
[24685.229129] usb 1-7: Product: APX
```

```
[24685.229132] usb 1-7: Manufacturer: NVIDIA Corp
```

2. Using the commands below in the Linux PC to start re-flashing BSP.

```
$ sudo tar zxvf <BSP_tarball_filename>.tar.gz
```

```
# where <BSP_tarball_filename> is the BSP tarball file name for your target device.
```

```
$ cd JetPack_xxx/Linux_for_Tegra
```

```
$ ./install.sh
```

Note: sudo is required to extract the BSP.

3. About how to Flash BSP for Orin NX, please refer to following link for more instructions.

<https://www.avermedia.com/professional/support/faq/how-to-flash-bsp-for-orin-nano-nx>

5.2 Software

This section describes BSP's features for D115WOXB

1. Support optional M.2 WI-FI/Bluetooth modules (Intel® Wireless-AC 9260), the manager UI of AC9260 WiFi/Bluetooth is located on the upper-right corner of Ubuntu desktop. It can be also controlled by nmcli/hcitol in command line.
2. Power Mode
Power mode can be modified by the UI on the upper-right corner of Ubuntu or the following commands.

```
# get current power mode
$ sudo nvpmode -q
# setup power mode
# where <x> is power mode number, please refer to (<= r32.7.x)
https://docs.nvidia.com/jetson/archives/l4t-archived/l4t-3261/index.html#page/Tegra%20Linux%20Driver%20Package%20Development%20Guide/power\_management\_jetson\_xavier.html and
(>= r35.1)
https://docs.nvidia.com/jetson/archives/r35.1/DeveloperGuide/text/SD/PlatformPowerAndPerformance/JetsonOrinNxSeriesAndJetsonAgxOrinSeries.html?highlight=nvpmode#supported-modes-and-power-efficiency for more information
$ sudo nvpmode -m <x>
```

* Current default power mode:

D115WOXB : 15W (2)

3. RTC Battery
The following command can get RTC battery voltage.

```
$ sudo avt_tool -a | grep -oP "AIN5.*[K(^)]"*
```

4. Fan Speed

The following commands can get PWM fan information.

```
# get current speed setting of PWM Fan (0 ~ 255)
$ cat /sys/devices/platform/pwm-fan/hwmon/hwmon<x>/pwm1

# get Fan RPM value
$ cat /sys/devices/platform/39c0000.tachometer/hwmon/hwmon<y>/rpm
```

* Where <x> and <y> are dynamic hwmon indexes

5. MIPI CSI Camera

There are 2x 2-lane and 1x 4-lane MIPI CSI camera supported on D115W, for current supported products type are listing as below:

* IMX219 (2-lane)

* IMX477 (2-lane): IMX477 requires a hardware modification in order to work with Jetson Platforms. Please refer to

https://developer.ridgerun.com/wiki/index.php/Raspberry_Pi_HQ_camera_IMX477_Linux_driver_for_Jetson#Compatibility_with_NVIDIA.C2.AEJetson.E2.84.A2_Platforms

* IMX179 (2-lane)

* IMX290 (2-lane)

* IMX290ISP (2-lane)

Test Command:

```
> Raspberry pi v2 :
```

* Please follow the settings below first:

1. Set the power mode to maximize at 25W.

2. Follow the settings in the Release Notes, and maximize the ISP & VI clock.

```
No width height framerate
```

```
0 3264 2464 21
```

```
1 3264 1848 28
```

```
2 1920 1080 30
```

```
3 1640 1232 30
```

```
4 1280 720 60
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)3280, height=(int)2464, format=(string)NV12, framerate=(fraction)21/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)3280, height=(int)1848, format=(string)NV12, framerate=(fraction)28/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1920, height=(int)1080, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1640,height=(int)1232,format=(string)NV12,framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1280,height=(int)720,format=(string)NV12,framerate=(fraction)60/1' !
queue ! nvvidconv ! xvimagesink -e
```

Multiple:

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)3264,height=(int)2464,format=(string)NV12,framerate=(fraction)21/1' !
queue ! nvvidconv ! xvimagesink -e & gst-launch-1.0 nvarguscamerasrc sensor-id=1
sensor-mode=0 ! 'video/x-raw(memory:NVMM),width=(int)3264,height=(int)2464,
format=(string)NV12,framerate=(fraction)21/1' ! nvvidconv ! xvimagesink -e &
```

> Raspberry pi v2 (imx477):

No	width	height	framerate
0	3840	2160	30
1	1920	1080	60

```
$ gst-launch-1.0 -e nvarguscamerasrc sensor-id=0 !
'video/x-raw(memory:NVMM),width=3840,height=2160,framerate=30/1' ! queue !
nvvidconv ! fpsdisplaysink video-sink='xvimagesink' sync=false
```

```
$ gst-launch-1.0 -e nvarguscamerasrc sensor-id=0 !
'video/x-raw(memory:NVMM),width=1920,height=1080,framerate=60/1' ! queue !
nvvidconv ! fpsdisplaysink video-sink='xvimagesink' sync=false
```

Multiple:

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 !
"video/x-raw(memory:NVMM),width=1920,height=1080,framerate=60/1" !
nvvidconv ! xvimagesink -e & gst-launch-1.0 nvarguscamerasrc sensor-id=1 !
"video/x-raw(memory:NVMM),width=1920,height=1080,framerate=60/1" !
nvvidconv ! xvimagesink -e &
```

> IMX179 :

No	width	height	framerate
0	3280	2464	15
1	1920	1080	30
2	3280	1698	30
3	2096	1084	30
4	1640	1232	30
5	820	616	30
6	820	616	60

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)3280,height=(int)2464,format=(string)NV12,framerate=(fraction)15/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1920, height=(int)1080, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)3280, height=(int)1698, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)2096, height=(int)1084, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1640, height=(int)1232, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)820, height=(int)616, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)820, height=(int)616, format=(string)NV12, framerate=(fraction)60/1' !
queue ! nvvidconv ! xvimagesink -e
```

> IMX290 :

No	width	height	framerate
0	1948	1096	30
1	1948	1096	60

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1948, height=(int)1096, format=(string)NV12, framerate=(fraction)30/1' !
queue ! nvvidconv ! xvimagesink -e
```

```
$ gst-launch-1.0 nvarguscamerasrc sensor-id=0 ! 'video/x-raw(memory:NVMM),
width=(int)1948, height=(int)1096, format=(string)NV12, framerate=(fraction)60/1' !
queue ! nvvidconv ! xvimagesink -e
```

> IMX290ISP :

No	width	height	framerate
0	1920	1080	25/30/50/60
1	1280	960	25/30/50/60
2	1280	720	25/30/50/60
0	800	600	25/30/50/60

```
1 640 480 25/30/50/60
2 640 360 25/30/50/60
```

```
$ gst-launch-1.0 v4l2src io-mode=4 device=/dev/video0 do-timestamp=true !
'video/x-raw, width=1920, height=1080, framerate=60/1, format=UYVY' ! queue !
xvimagesink sync=false
```

```
$ gst-launch-1.0 v4l2src io-mode=4 device=/dev/video0 do-timestamp=true !
'video/x-raw, width=1280, height=960, framerate=30/1, format=UYVY' ! queue !
xvimagesink sync=false
```

```
$ gst-launch-1.0 v4l2src io-mode=4 device=/dev/video0 do-timestamp=true !
'video/x-raw, width=1280, height=720, framerate=30/1, format=UYVY' ! queue !
xvimagesink sync=false
```

```
$ gst-launch-1.0 v4l2src io-mode=4 device=/dev/video0 do-timestamp=true !
'video/x-raw, width=800, height=600, framerate=30/1, format=UYVY' ! queue !
xvimagesink sync=false
```

```
$ gst-launch-1.0 v4l2src io-mode=4 device=/dev/video0 do-timestamp=true !
'video/x-raw, width=640, height=480, framerate=30/1, format=UYVY' ! queue !
xvimagesink sync=false
```

```
$ gst-launch-1.0 v4l2src io-mode=4 device=/dev/video0 do-timestamp=true !
'video/x-raw, width=640, height=360, framerate=30/1, format=UYVY' ! queue !
xvimagesink sync=false
```

6. CAN Bus

There are one CAN Bus for D115WOXB, see the following command for usage.

(1) Enable and setup CAN Bus

```
# 1. Enable CAN Bus
$ sudo modprobe can
$ sudo modprobe can-raw
$ sudo modprobe mttcan
# 2. Setup CAN Bus
$ sudo ip link set can0 type can bitrate 500000 dbitrates 2000000 berr-reporting on fd
on restart-ms 100
$ sudo ip link set can0 up
```

(2) Receive and Send

```
# Receive
$ candump can0

# Send
$ cansend can0 <can_frame>
```

* where:

<can_frame> is CAN Bus frame message, see `cansend --help` for more detail.

7. GPIO usage

(1) Output

```
$ sudo su
$ gpio_id=483
$ echo $gpio_id > /sys/class/gpio/export
$ cat /sys/kernel/debug/gpio | grep 483
# show gpio-483 PZ.05 status

$ gpio_index=PZ.05
$ echo out > /sys/class/gpio/$gpio_index/direction
$ echo 1 > /sys/class/gpio/$gpio_index/value # set HIGH
$ echo 0 > /sys/class/gpio/$gpio_index/value # set LOW
```

(2) Input

```
$ sudo su
$ gpio_id=483
$ echo $gpio_id > /sys/class/gpio/export
$ cat /sys/kernel/debug/gpio | grep 483

$ gpio_index=PZ.05
$ echo in > /sys/class/gpio/$gpio_index/direction
$ cat /sys/class/gpio/$gpio_index/value # 1: HIGH, 0: LOW
```

(3) Disable

```
$ sudo su
$ gpio_id=483
$ echo $gpio_id > /sys/class/gpio/unexport
```

For L4T (Linux for Tegra) BSP support and the other software support associated with NVIDIA® Jetson Orin NX, please visit AVerMedia website to contact our technical support

function. (<https://www.avermedia.com/tw/support/contact>)

5.3 Force Recovery Mode

USB 3.1 / Jetson platform port of D115WOXB can be used to re-program NVIDIA® Jetson Orin NX by using the other host system running NVIDIA Jetpack, as the procedure described below.

1. Power off the system. Ensure the system power must be completely OFF, instead of staying in the suspend mode or the sleep mode.
2. Connect a USB cable from Jetson platform USB port to the other host system which will be used to re-program the new system file into NVIDIA® Jetson Orin NX
3. Press and hold down Force Recovery Button and then power on the carrier board.
4. After three seconds, release Force Recovery Button.
5. NVIDIA® Orin NX will show up on the USB list of the host system as a new NVIDIA target device.

After the system software is updated successfully, please ensure to power off the system. A clean power-on will then revert Jetson platform port back to the host mode.

6.0 OOB Software Settings

Please refer to [Getting Started with Allxon Remote Management Service](#)

For more Allxon support, see <https://www.allxon.com> or contact them at service@allxon.com.

7.0 Power Consumption

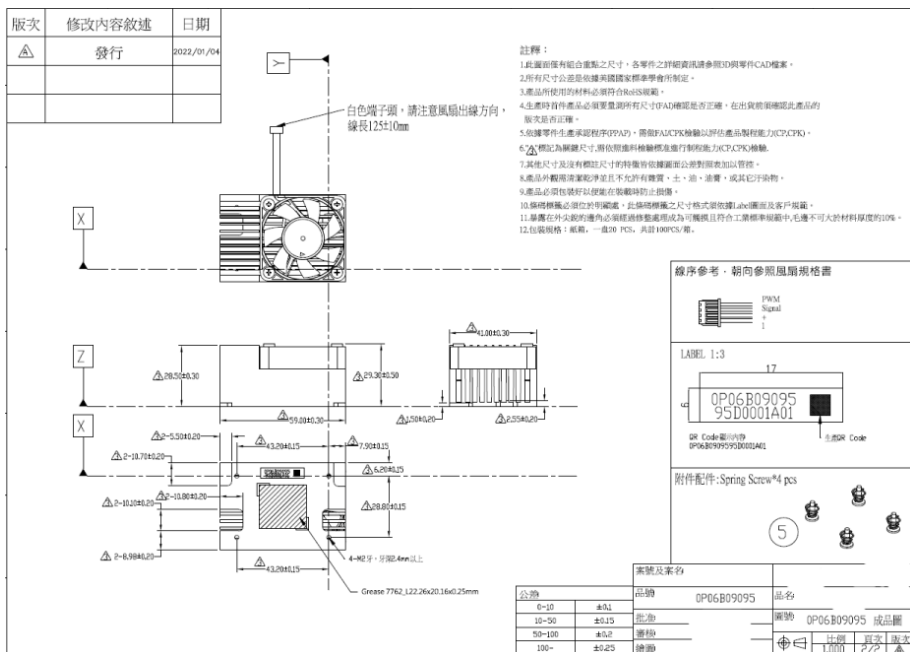
Item Description	Power Consumption
Theoretical Maximum System Power Consumption	D115WOXB-1 Power Consumption: 4.8W(standby) to 38W(full) The condition is connected to USB3.0 device*2, USB 2.0 device*1, LAN *1, SSD 256G*1,WIFI 9260*1, HDMI*1,with CPU/ GPU full loading. (maximum power consumption up to 60W based on adapter)
Typical System Power Consumption	The power consumption under the normal operating mode is depending on the application software running with NVIDIA® Jetson Orin NX

8.0 Accessory Drawings

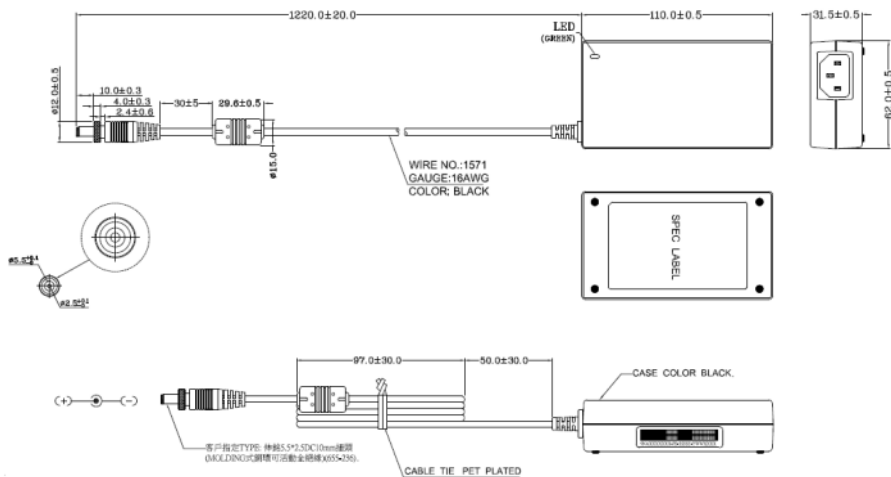
8.1 Fan Module/ Adapter/ Power Cord

Fan Module for Orin NX/Orin Nano

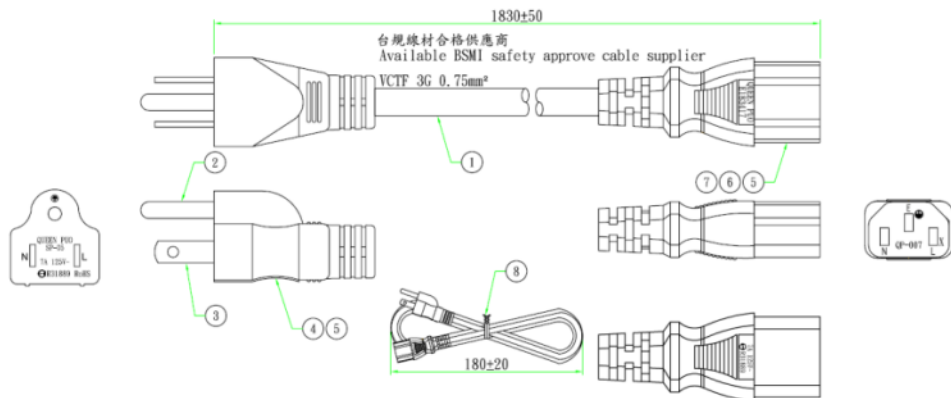
- Rated Voltage: 5V
- Operating Voltage Range: 3.5V~5.5V
- Rated Speed: 7000RPM±10%
(Testing Speed After Continuous 3 Minute Operation At Ambient Temperature Of 25°C)
- Life Expectancy: 70,000hours at 40°C (WITH 15~65% RH)
- Bearing Type: Two Ball



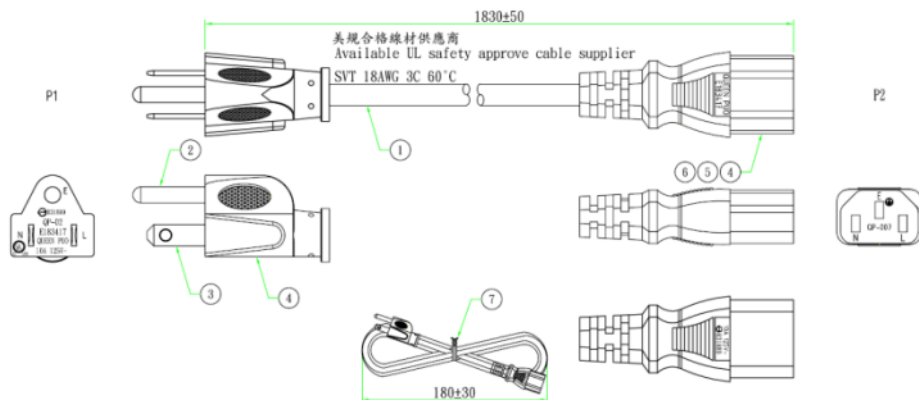
Power Adapter 04131HGOUANK



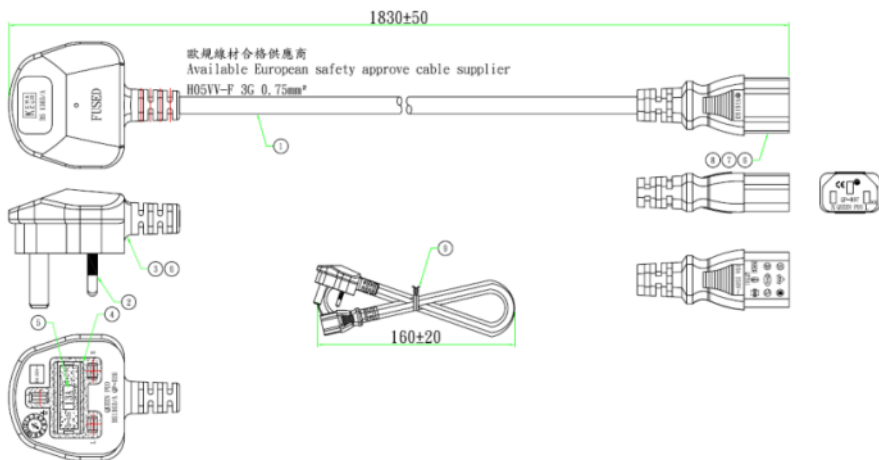
64APOWBRX-IPD (TW version)



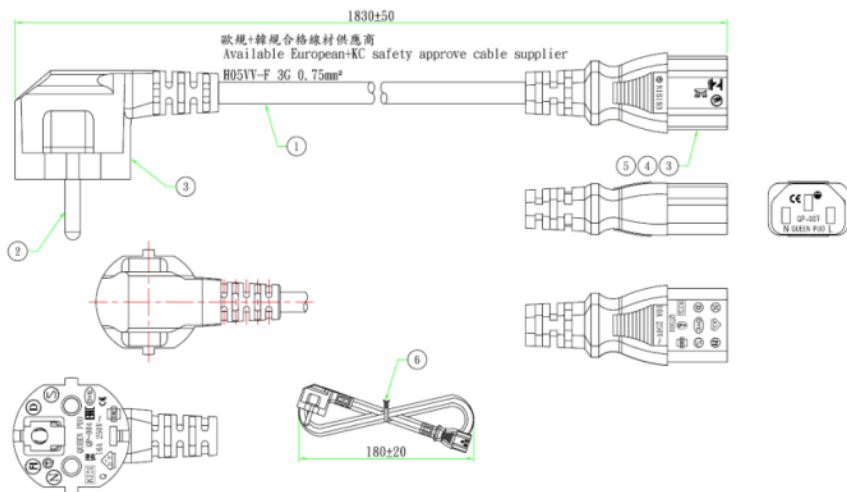
064APOWBR2-IPD (US version)



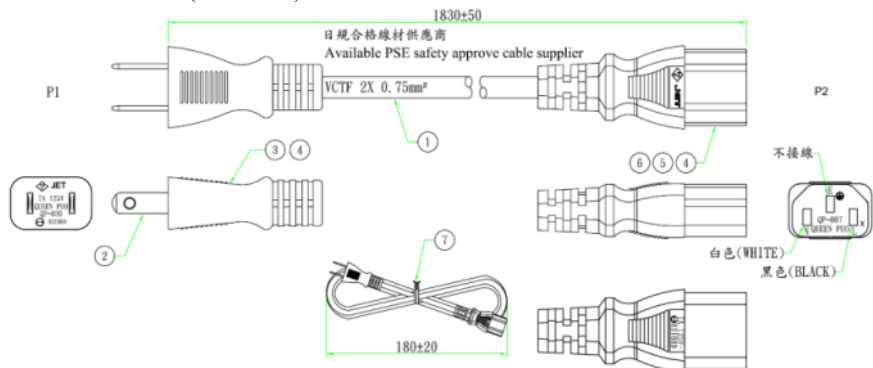
064APOWBRW-IPD (UK version)



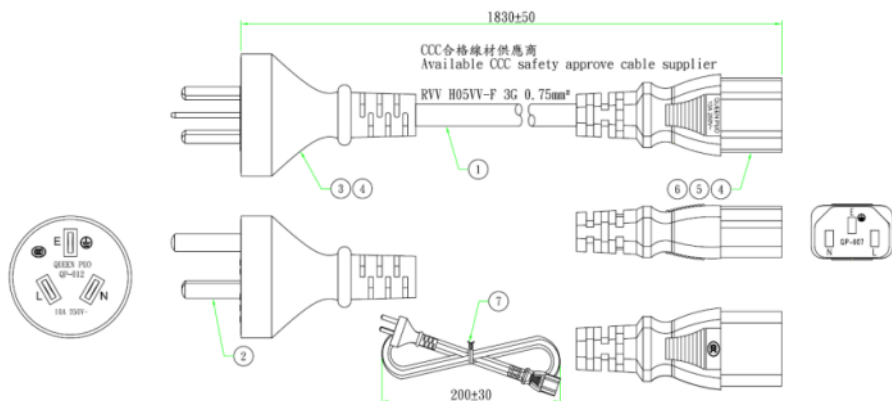
064APOWBR5-IPD (EU version)



064APOWERSL (JP version)

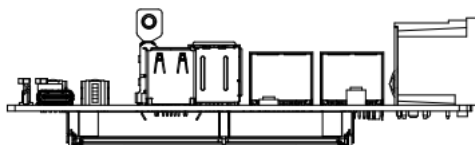
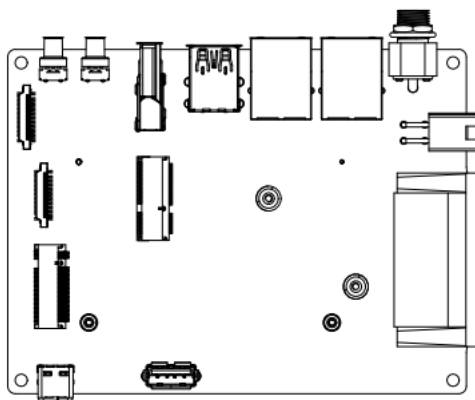
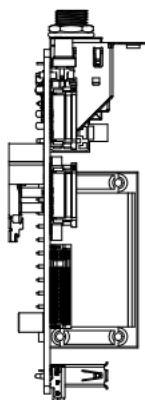
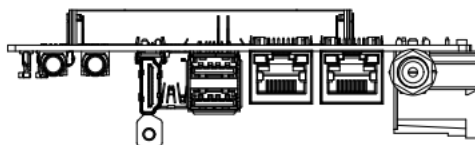


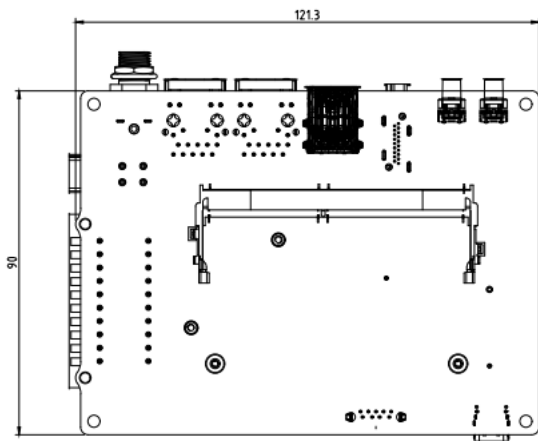
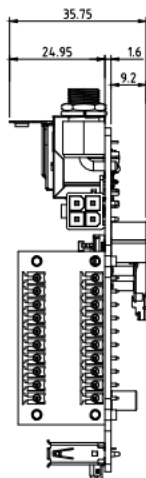
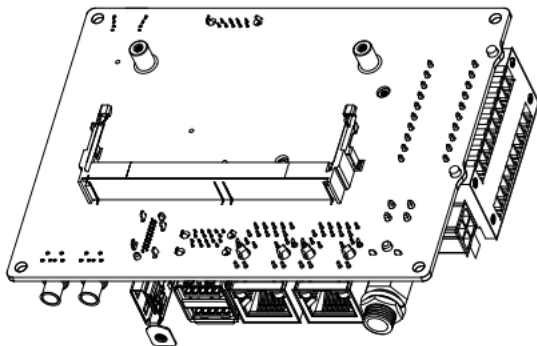
064APOWERSL (CN version)



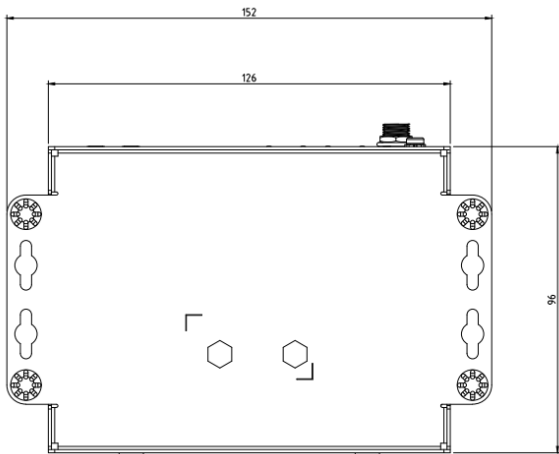
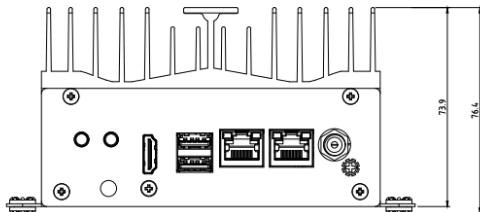
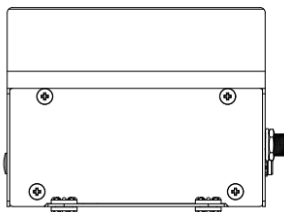
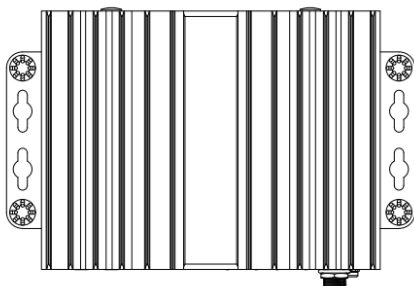
9.0 Dimension Drawings and Assembly Drawings

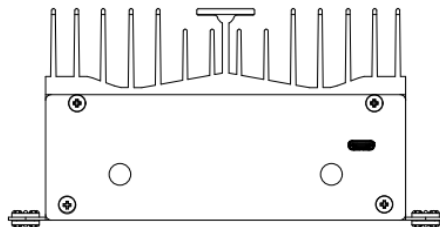
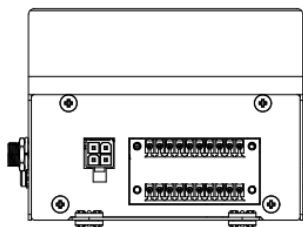
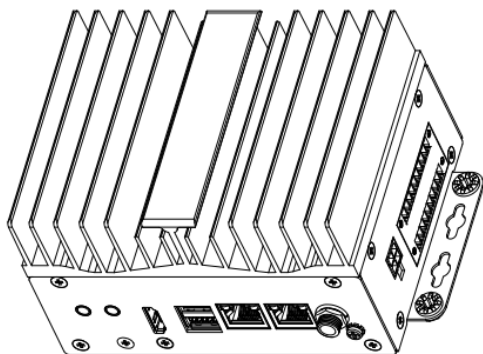
9.1 Dimension Drawings of carrier board





9.2 Dimension Drawing of Box PC





9.3 Dimension Drawing of D115WOXB-1 + OOB Box PC

