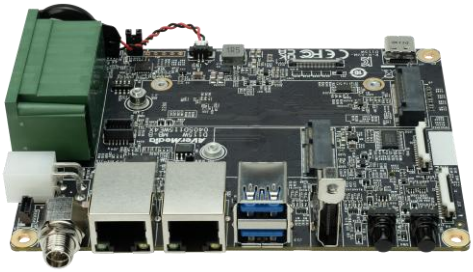
AVerMedia D115W-1 Carrier board and D115WOXB-1/D115WONB-1 Box PC

Applies to NVIDIA® Jetson Orin NX/Orin Nano module



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Technical Support: Professional User

Table of Contents

Preface

Disclaimer

The information contained in this user manual, including but not limited to any product specification is subject to change without notice. AVerMedia assumes no liability for any damages incurred directly or indirectly from any technical or typographical errors or omissions contained herein or for discrepancies between the product and the user manual.

Technical Support

If you experience the difficulty after reading this manual and/or using the product, please contact the reseller from which you purchased the product. In most cases, the reseller can help you with the product installation and the difficulty you encountered.

In case the reseller is not able to resolve your problem, our highly capable global technical support team can certainly assist you. Our technical support section is available 24 hours a day and 7 days a week through our website, with the click here. For more contact information, you may find it in the section of AVerMedia Global Offices.

Contact Enquiry

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

Download User Manual

Please click the link here to download the file of this user manual from AVerMedia website.

Revision History

Revision	Date	Updates
Version 1.0	Sep, 06, 2024	1st 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

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Limited Product Warranty

AVerMedia provides the three-year product warranty. Should this product, in AVerMedia's opinion, fail to be in the good working order during the warranty period, AVerMedia will, at its option, repair or replace it at no charge, provided that the product has not been subjected to abuse, misuse, accident, disaster, or non-AVerMedia authorized modification or repair.

You may obtain the warranty service by delivering this product to an authorized AVerMedia business partner or to AVerMedia along with the proof of purchase. Product returned to AVerMedia must be pre-authorized by AVerMedia with an RMA (Return Material Authorization) number marked on the outside of the package and sent prepaid, insured, and packaged for the safe shipment. AVerMedia will return the product by prepaid shipment service.

It is not recommended to disassemble the box PC, which will impact the warranty. The limited product warranty is only valid over the serviceable life of the product. This is defined as the period during which all components are available. Should the product prove to be irreparable, AVerMedia reserves the right to substitute an equivalent product if available or to retract the product warranty if no replacement is available.

The above product warranty is the only warranty authorized by AVerMedia. Under no circumstances will AVerMedia be liable in any way for any damages, including any lost profits, lost savings, or other incidental or consequential damages arising out of the use of, or inability to use, such product.

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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 stuff.
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 Module Compatibility	NVIDIA® Jetson Orin NX module NVIDIA® Jetson Orin NANO module	
Networking	2x GbE RJ-45 1xM.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	1xM.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 Module Compatibility	NVIDIA® Jetson Orin NX module NVIDIA® Jetson Orin NANO module	
Networking	2x GbE RJ-45 1xM.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	1xM.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	

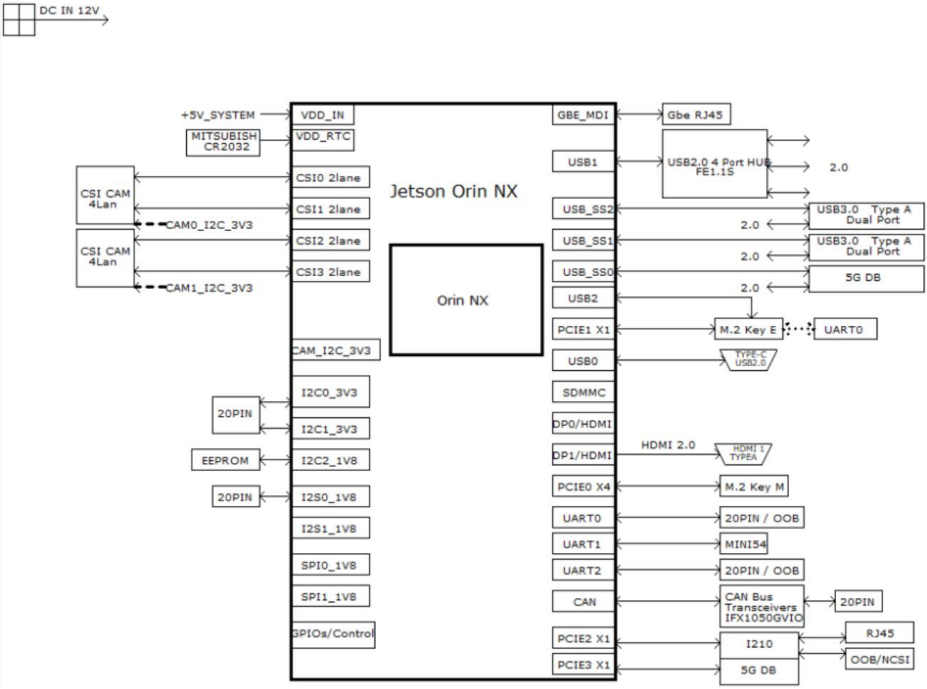
*When equipped with the OOB module, 2x UART will be unavailable.
**With the optional OOB module, the default configuration uses Ethernet 2 on the D115W for OOB management, rendering the OOB-Ethernet on the OOB module inactive. Alternatively, we offer another option that allows users to manage via the 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

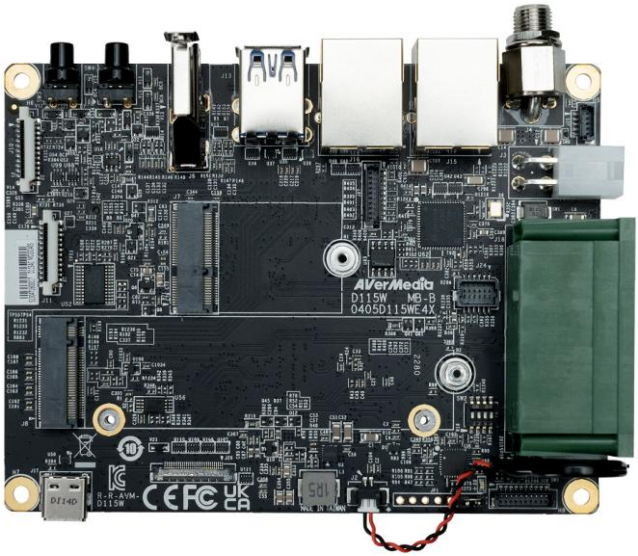
Item	D115W-1 D115WOXB-1/D115WONB-1
NVIDIA® Jetson	NVIDIA® Jetson Orin NX/Orin Nano
Power cord	EU/JP/TW/US/CN/UK/AU
MIPI Camera (internal I/O)	For 22 pin MIPI connector 1. raspberry pi imx219 & imx477 (V2) 2. Manufacturer: APPRO.PHO ■ B-04: IMX179(8M)MIPI, 1080P(30fps) ■ C-04: IMX290(2M)MIPI, 1080P(30fps)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

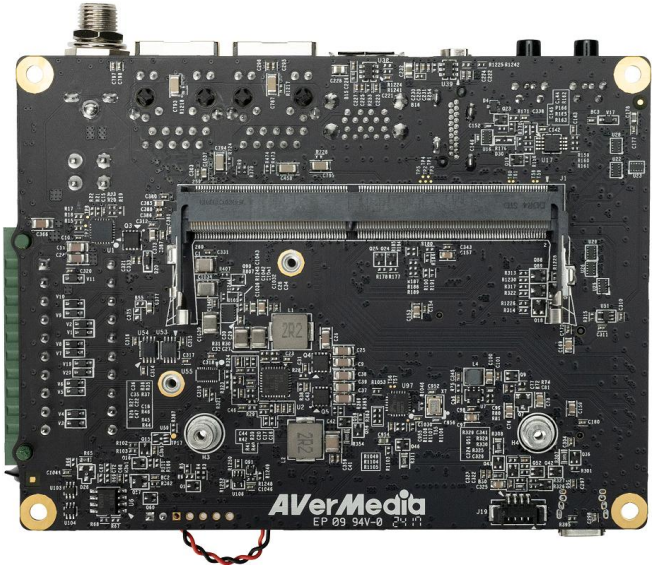
2.0 Product Overview

2.1 Block Diagram for Orin NX



2.2 Front View and Back View of Carrier board



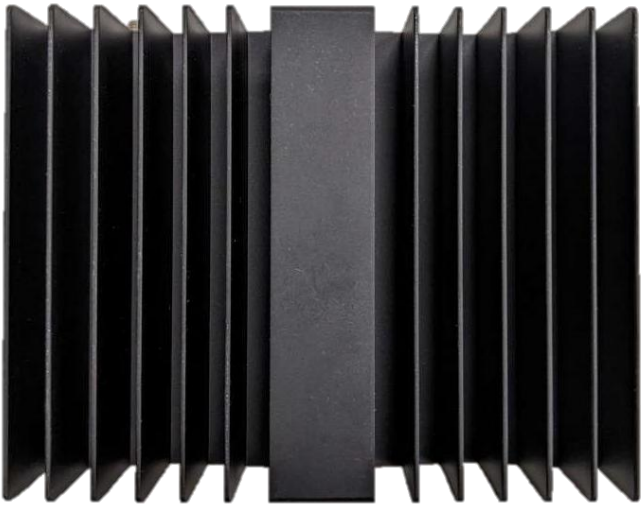


2.3 Front View and Three-Quarter View of BoxPC

Left view

Right view

Top view



Front view

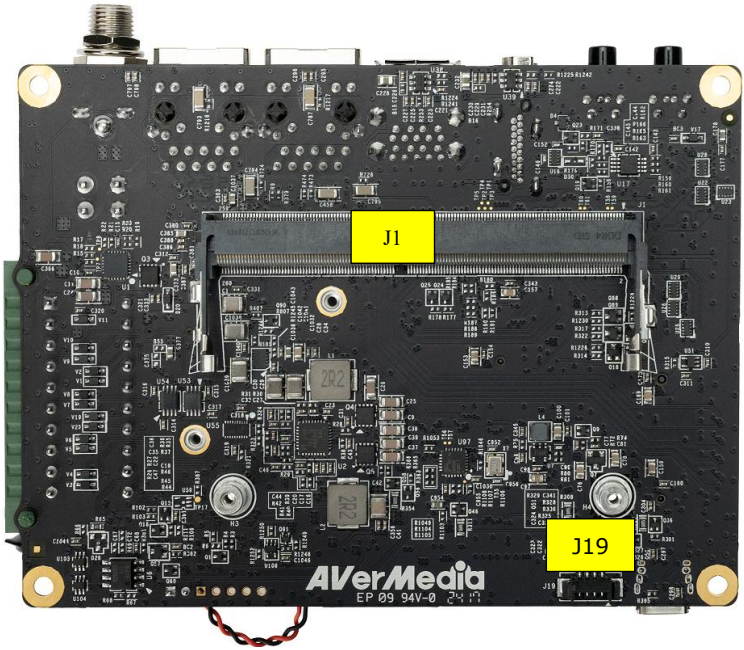
Rear view

Bottom view

2.4 Connector Summary

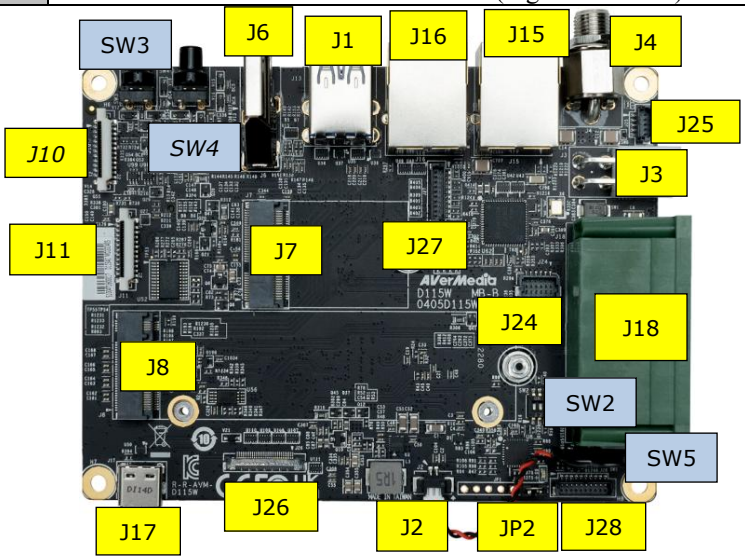
Top View Interface

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)



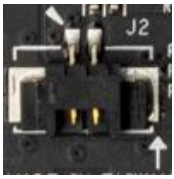
3.0 Feature Description

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

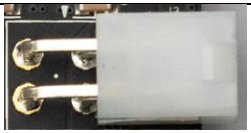
Function	RTC battery for module
Location	J2
Type Description	1.25mm wire-to-board header 02P type
Manufacturer and Part Number	宏致_ACES 50271-00201-001
Mating Connector	Molex 51021-8602
Pinout	Pin # / Description PIN1 / GND PIN2 / 3V Power
Remarks	RTC Battery: KTS, CR2032 3V



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

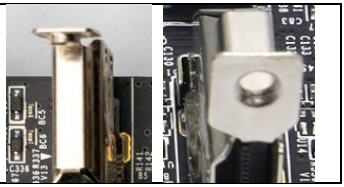


3.4 DC POWER JACK

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

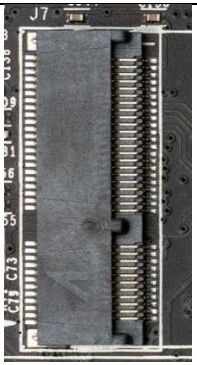
3.5 HDMI OUTPUT

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

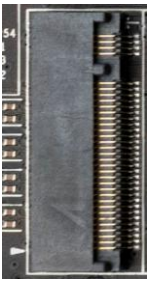


Part Number	ACNHM220028-001	
Mating Connector	Any HDMI standard Type-A interface cable or device.	
Pinout	Please refer to HDMI standard.	
Remarks	None	

3.6 M.2 E key 2230

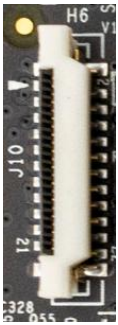
Function	M.2 E key	
Location	J7	
Type Description	SOCKET_M.2-KEY E_75PIN_90°_SMD	
Manufacturer and Part Number	宏致_ACES 51750-0750P-005	
Mating Connector	Any M.2 E key 2230 card standard interface device.	
Pinout	Please refer to M.2 E key card standard for the pinout details.	
Remarks	Support PCIe Gen4 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 ㎜-H5.5 ㎜	
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 Description	ZIF FPC Conn._22PIN_0.5 ㎜_90°
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

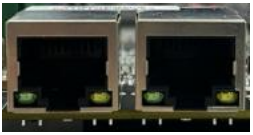
J11

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		

<table>
<tr>
<td></td>
<td>
J16
<table>
<tr><th colspan="2">Activity LED (left)</th><th colspan="2">Link/Speed LED (right)</th></tr>
<tr><th>Status</th><th>Description</th><th>Status</th><th>Description</th></tr>
<tr><td>Yellow Blinking</td><td>Data transmission or receiving is occurring</td><td>Green</td><td>PSE Ready</td></tr>
<tr><td>Off</td><td>No data transmission or receiving is occurring</td><td>Off</td><td>W/O PSE</td></tr>
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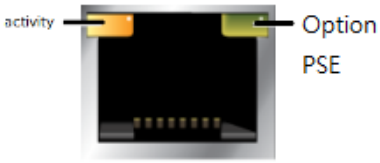
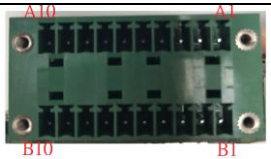
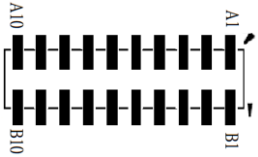


J15
<table>
<tr><th colspan="2">Activity LED (left)</th><th colspan="2">Link/Speed LED (right)</th></tr>
<tr><th>Status</th><th>Description</th><th>Status</th><th>Description</th></tr>
<tr><td>Yellow Blinking</td><td>Data transmission or receiving is occurring</td><td>Green</td><td>1000M</td></tr>
<tr><td>Off</td><td>No data transmission or receiving is occurring</td><td>Off</td><td>100M</td></tr>
</table>
</td>
</tr>
<tr>
<td>Remarks</td>
<td>J15 is via I210 Ethernet controller and J16 is directly from NVIDIA Jetson SOM.
PSE(Maximum 15W) Option: J16</td>
</tr>
</table>

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 ㎜	
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

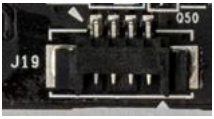
Function	General-purpose input/output	 
Location	J18	
Type Description	Expansion I/O Connector	
Manufacturer and Part Number	ME252-35020-1	
Mating Connector	20-Pin GPIO expansion	

Pinout

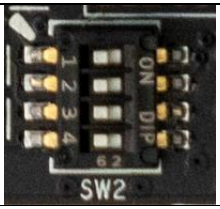
Address	Pin Name	20-pin Index (Devkit Index)		Pin Name	Address
	5V	A1	B1	3V3	
	GND	A2	B2	GND	
/dev/ttyTCU0	UART2_TXD_3V3	A3	B3	I2C1_SDA	/dev/i2c-7
	UART2_RXD_3V3	A4	B4	I2C1_SCL	
	GND	A5	B5	I2C0_ID_SDA	/dev/i2c-1
/dev/ttyTHS1	UART0_TXD_3V3	A6	B6	I2C0_ID_SCL	
	UART0_RXD_3V3	A7	B7	I2S0_SCLK_LS	gpio398
can0 (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 ㎜_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		
Remark	Default SW2 all OFF	

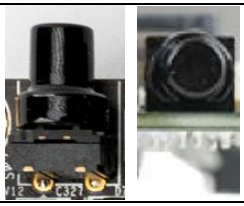
Position No	Position Description	Switch ON	Switch OFF
1(SW1)	Power ON mode	Always Power ON	Auto Power ON
2(SW2)	CAN0_Terminal	With 120 ohm Terminal	W/O 120 ohm Terminal
3(SW3)	Power-Up / Start-up Control	"ATX Mode" Power Button Press Required	"AT Mode" - Automatic Start-up Enabled
4(SW4)	PWM Fan Control	FAN Always ON	FAN PWM Enabled (SW Controlled)

3.15 DIP Switch #2 (UART)

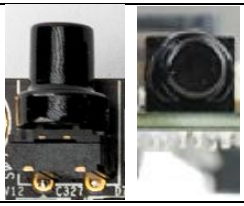
Function	OOB UART/IO UART	
Location	SW5	
Type Description	2 SPST DIP switch	
Manufacturer and Part Number	DIPTRONICS IN OFF-SWITCHING 0.025A/24VDC	

Pinout	<table><tr><th>Position No.</th><th>Position Description</th><th>Switch ON</th><th>Switch OFF</th></tr><tr><td>1(SW1)</td><td>UART0</td><td>OOB</td><td>IO</td></tr><tr><td>2(SW2)</td><td>UART2</td><td>OOB</td><td>IO</td></tr></table>
Remark	Default SW5 all OFF

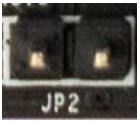
3.16 power Button

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.	

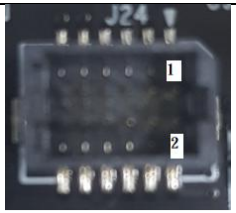
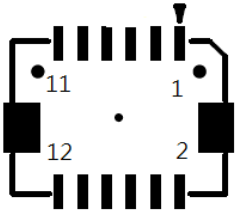
3.17 Recover Button

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

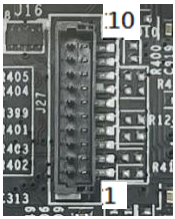
Function	WDT function	
Location	JP2	
Type Description	HEADER_PIN_1*2PIN_2.54 ㎜ _180°_DIP	
Manufacturer and Part Number	頻銳_210-81-02GB01	
Pinout	Pin 1,2 / Description Open / WDT enable Short / WDT disable	
Remark	None	

3.19 PSE Board Connector.

Function	PSE board connector.	
Location	J24	
Type Description	WAFER_2*6PIN_1 ㎜_180°_SMD	
Manufacturer and Part Number	ACES 50238-01241-001	
Pinout		
Remarks	For optional PSE board	

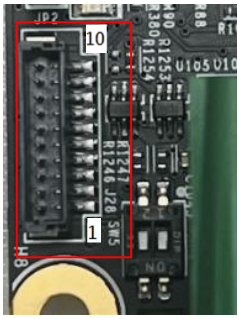
PIN#	Description	PIN#	Description
Pin1	PWR_IN	Pin2	GND
Pin3	PWR_IN	Pin4	GND
Pin5	54V	Pin6	SYS_RST*
Pin7	54V	Pin8	I2C1_SCL *
Pin9	PortN_OUT0	Pin10	I2C1_SDA
Pin11	POE_P0	Pin12	3V3

3.20 OOB Board Connector #1 (NC-SI)

Function	OOB board connector #1 (NC-SI)	
Location	J27	
Type Description	WAFER_1*10PIN_1 ㎜_180°_SMD	
Manufacturer and Part Number	ACES 50228-01071-001	
Mating Connector	ACES 50233-010H0H0-001	
Pinout		
Remarks	For optional OOB board via RJ45 J15(I210 NC-SI)	

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

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

Function	OOB board connector #2 (signal & power)	
Location	J28	
Type Description	WAFER_1*10PIN_1 ㎜_180°_SMD	
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)

Function	5G board connector #1 (power)	
Location	J25	
Type Description	WAFER_1*5PIN_1㎜_180°_SMD	
Manufacturer and Part Number	ACES 50228-00571-001	
Mating Connector	ACES 50233-005H0H0-001	
Pinout	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)

Function	5G board connector #2 (signal)	
Location	J26	
Type Description	WAFER_30PIN_0.4㎜_90°_SMD	
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

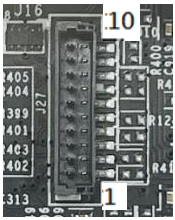
Other Switches and Jumpers

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 Description	WAFER_1*10PIN_1 ㎜_180°_SMD
Manufacturer and Part Number	ACES 50228-01071-001
Mating Connector	ACES 50233-010H0H0-001



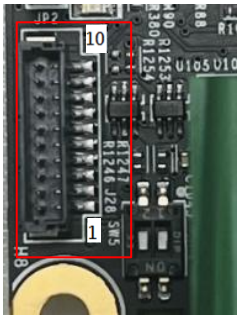
Pinout

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 Description	WAFER_1*10PIN_1 ㎜_180°_SMD
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)

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	
Remark	Default SW5 all OFF

Position No.	Position Description	Switch ON	Switch OFF
1(SW1)	UART0	OOB	IO
2(SW2)	UART2	OOB	IO

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 eusupport@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/hcitool 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 nvpmodel -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=nvpmodel#supported-modes-and-power-efficiency for more information
$ sudo nvpmodel -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 dbitrate 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.l / 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

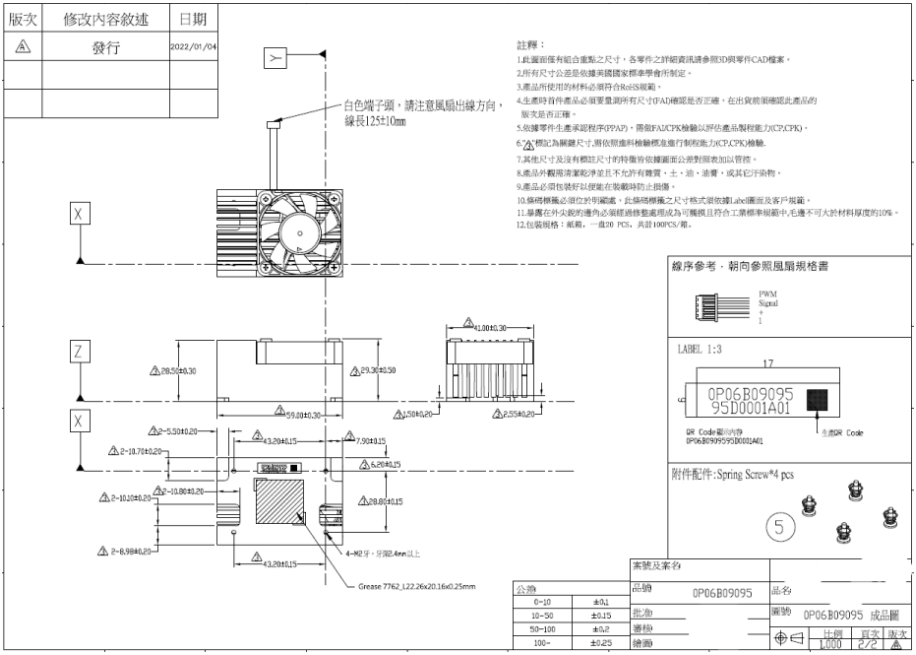
Item Description	Power Consumption
Theoretical Maximum System Power Consumption	● D115WOXB-1 Power Consumption: 4.8W(standby) to 38W(full) The condition is connected to USB3.0 device*2, USB 2.0 device*1, LAN *1, SSD 256G*1,WIFI 9260*1, HDMI*1,with CPU/ GPU full loading. (maximum power consumption up 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

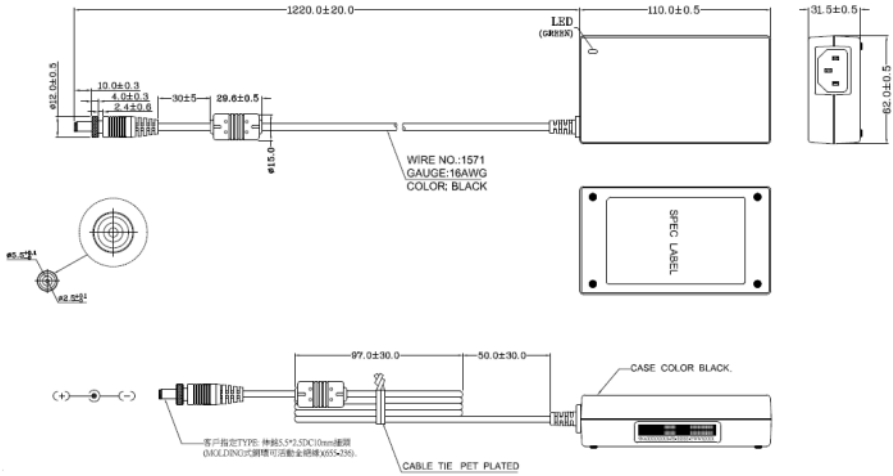
8.1 Fan Module/ Adapter/ Power Cord

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℃)
- Life Expectancy: 70,000hours at 40℃ (WITH 15~65% RH)
- Bearing Type: Two Ball



Power Adapter 04131HGOUANK



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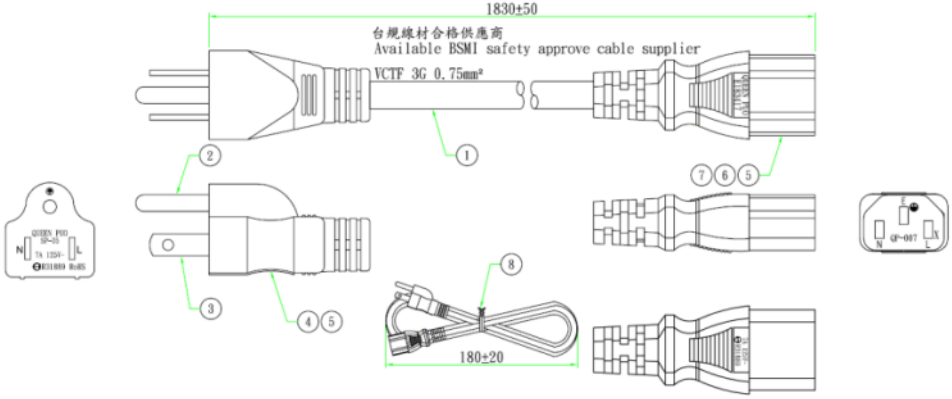

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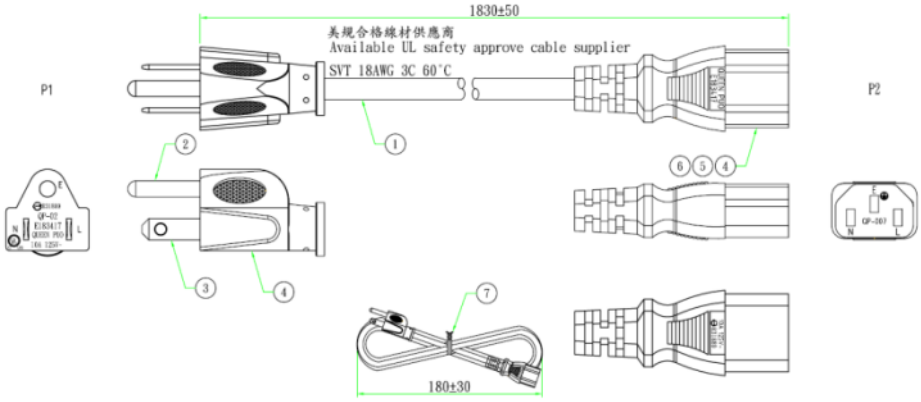

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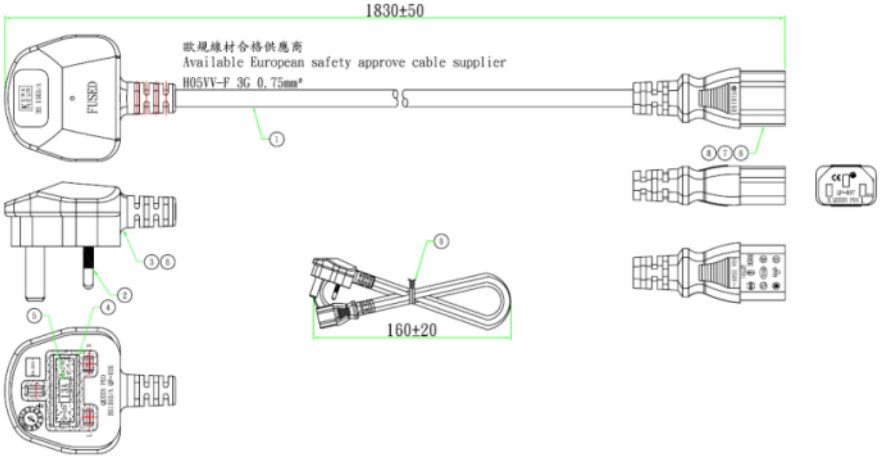

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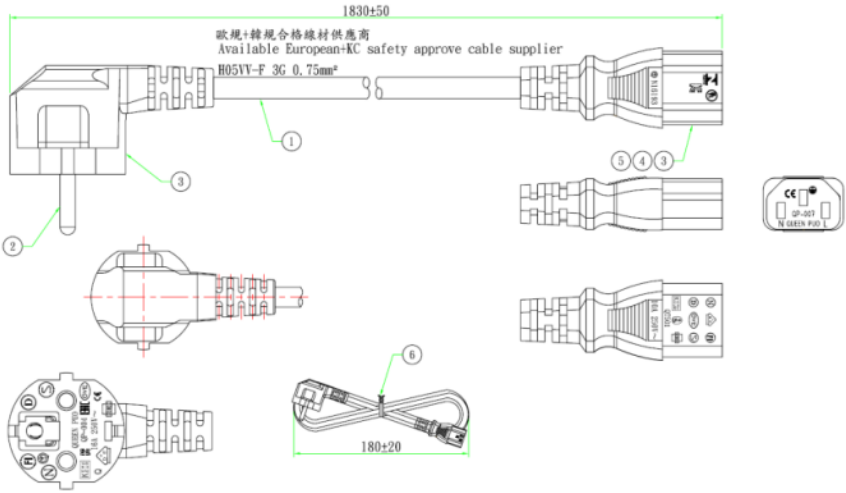

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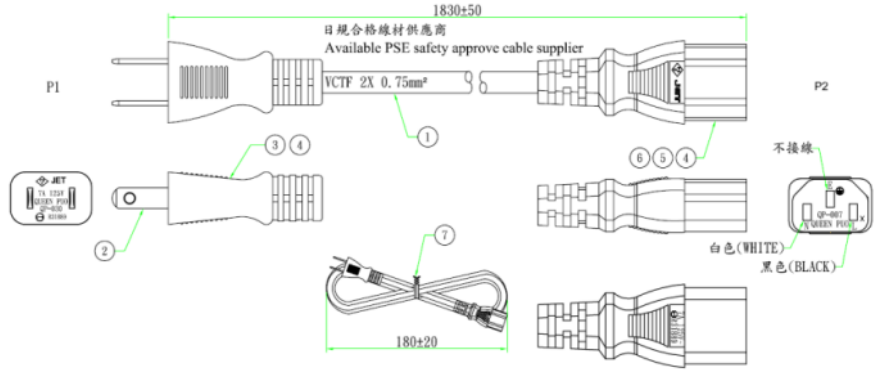
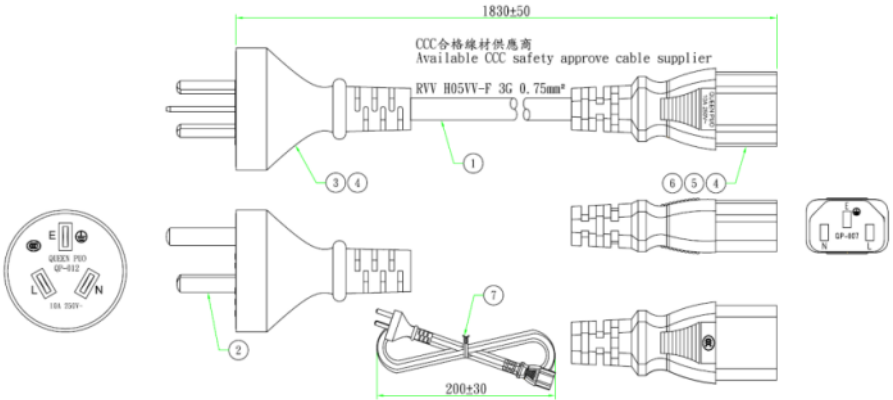
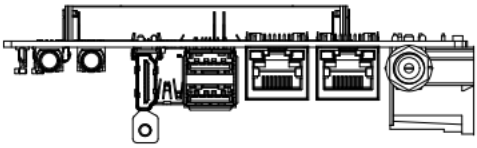


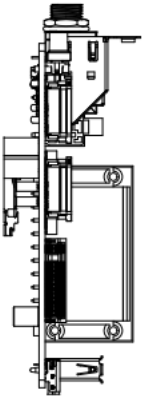
064APOWERBR4-IPD (CN version)

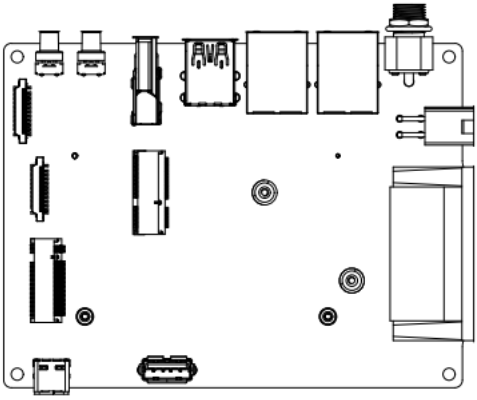


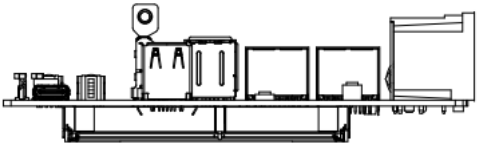
9.0 Dimension Drawings and Assembly Drawings

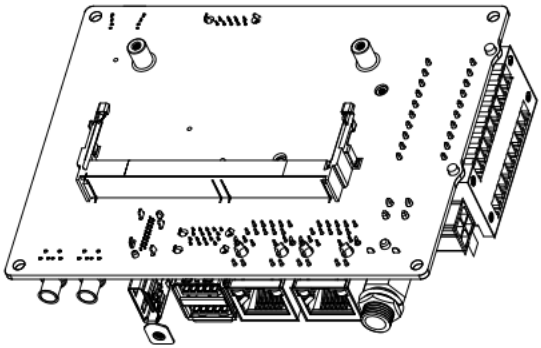
9.1 Dimension Drawings of carrier board

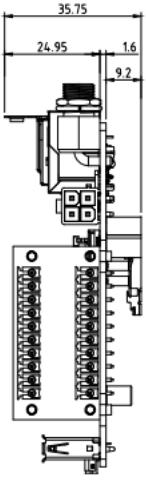


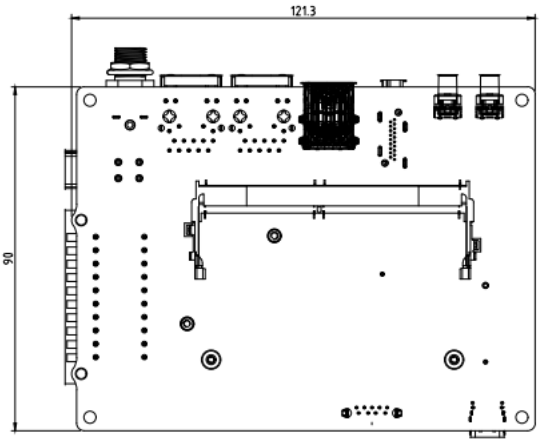




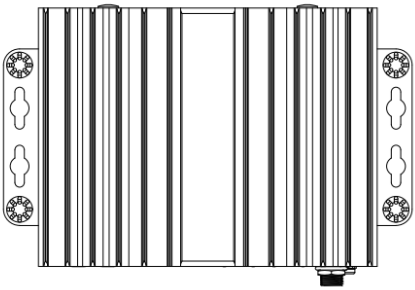


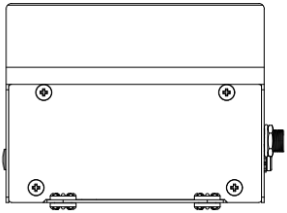


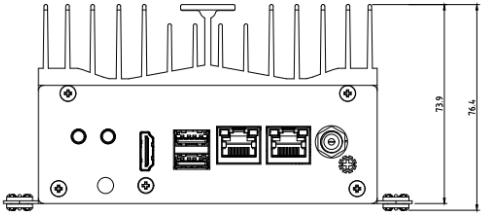

35.75
24.95
1.6
9.2

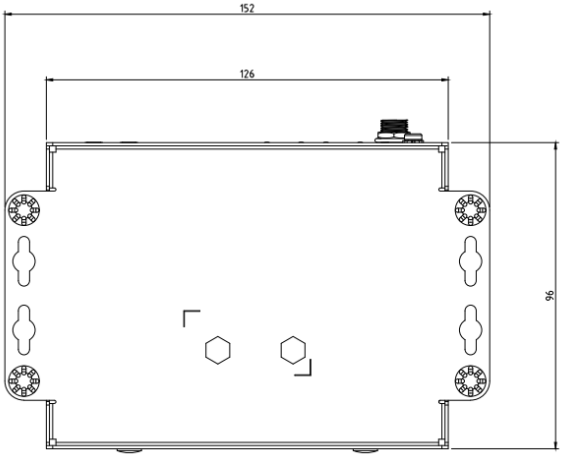

121.3
90

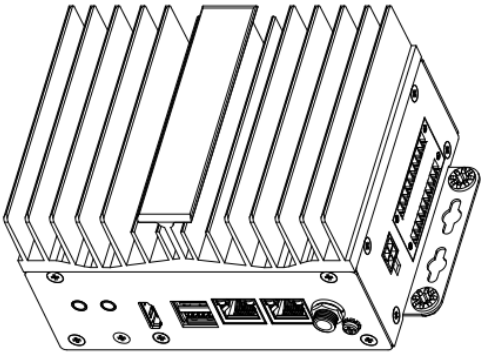
9.2 Dimension Drawing of Box PC

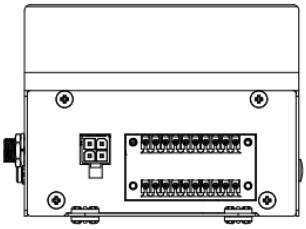


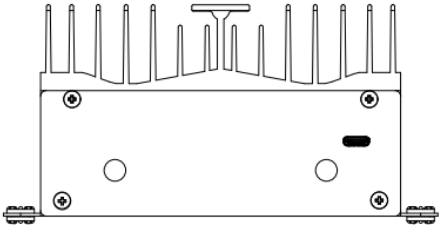












9.3 Dimension Drawing of D115WOXB-1 + OOB Box PC