



Intelli TWL01 Edge

UP System
ITL-TWL01-SYS

User's Manual 1st Ed

Copyright Notice

This document is copyrighted, 2026. All rights are reserved. The original manufacturer reserves the right to make improvements to the products described in this manual at any time without notice.

No part of this manual may be reproduced, copied, translated, or transmitted in any form or by any means without the prior written permission of the original manufacturer. Information provided in this manual is intended to be accurate and reliable. However, the original manufacturer assumes no responsibility for its use, or for any infringements upon the rights of third parties that may result from its use.

The material in this document is for product information only and is subject to change without notice. While reasonable efforts have been made in the preparation of this document to assure its accuracy, AAEMON assumes no liabilities resulting from errors or omissions in this document, or from the use of the information contained herein.

AAEMON reserves the right to make changes in the product design without notice to its users.

Acknowledgement

All other products' name or trademarks are properties of their respective owners.

- Microsoft® and Windows® are registered trademarks of Microsoft Corp.
- Intel® is a registered trademark of Intel Corporation
- Core™ is a trademark of Intel Corporation
- Yocto Project® is a trademark of The Linux Foundation.
- Linux® is a registered trademark of Linus Torvalds in the U.S. and other countries.
- Ubuntu and Canonical are registered trademarks of Canonical Ltd.
- Yocto Project is a trademark of The Linux Foundation.

All other product names or trademarks are properties of their respective owners.

Packing List

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

Item	Quantity
● Intelli TWL01 Edge (ITL-TWL01-SYS)	1

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

About this Document

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

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

Safety Precautions

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

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

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

Warning!



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

Caution:

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

Attention:

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

产品中有毒有害物质或元素名称及含量

AAEON System

QO4-381 Rev.A2

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板 及其电子组件	×	○	○	○	○	○
外部信号 连接器及线材	×	○	○	○	○	○
外壳	○	○	○	○	○	○
中央处理器 与内存	×	○	○	○	○	○
硬盘	×	○	○	○	○	○
液晶模块	×	○	○	○	○	○
光驱	×	○	○	○	○	○
触控模块	×	○	○	○	○	○
电源	×	○	○	○	○	○
电池	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下。

×：表示该有害物质的某一均质材料超出了 GB/T 26572 的限量要求，然而该部件仍符合欧盟指令 2011/65/EU 的规范。

环保使用期限(EFUP (Environmental Friendly Use Period))：10 年

备注：

一、此产品所标示之环保使用期限，系指在一般正常使用状况下。

二、上述部件物质中央处理器、内存、硬盘、光驱、电源为选购品。

三、上述部件物质液晶模块、触控模块仅一体机产品适用。

China RoHS Requirement (EN)

Name and content of hazardous substances in product

AAEON System

QO4-381 Rev.A2

Part Name	Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB Assemblies	×	○	○	○	○	○
Connector and Cable	×	○	○	○	○	○
Chassis	○	○	○	○	○	○
CPU and Memory	×	○	○	○	○	○
Hard Disk	×	○	○	○	○	○
LCD Modules	×	○	○	○	○	○
CD-ROM/DVD-ROM	×	○	○	○	○	○
Touch Modules	×	○	○	○	○	○
Power	×	○	○	○	○	○
Battery	×	○	○	○	○	○

The table is prepared in accordance with the provisions of SJ/T 11364.

○ : Indicates that said hazardous substance contained in all of the homogenous materials for this product is below the limit requirement of GB/T 26572.

× : Indicates that said hazardous substance contained in at least one of the homogenous materials used for this part is above the limit requirement of GB/T 26572. But this product still be compliance with 2011/65/EU Directive (allowed with 2011/65/EU Annex III of RoHS exemption with number 6(c),7(a),7(c)-1).

EFUP (Environment Friendly Use Period) value: 10 years.

Notes:

1. This product defined period of use is under normal condition.
2. In above part, CPU/Memory/ Hard Disk/CD-ROM/DVD-ROM/ Power are optional.
3. In above part, LCD Modules/ Touch Modules are for all-in-one product model.

Table of Contents

Chapter 1 - Product Specifications	1
1.1 Specifications.....	2
Chapter 2 – Hardware Information	4
2.1 Dimensions	5
2.2 Jumpers and Connectors.....	6
2.3 List of Jumpers, Connectors, & Physical Interfaces	7
2.3.1 Power Button (SW1).....	11
2.3.2 Fan Wafer (J1).....	12
2.3.3 AT/ATX Selection (JP1).....	13
2.3.4 DB-9 COM Port (CN1).....	14
2.3.5 RTC Wafer (CN2).....	15
2.3.6 Dual USB 3.2 Gen 2 Type-A – 1 (CN3)	16
2.3.7 M.2 2280 M-Key (CN4).....	17
2.3.8 GPIO Wafer (CN5)	18
2.3.9 USB & UART Wafer (CN6).....	19
2.3.10 Front Panel (CN7)	20
2.3.11 M.2 2230 E-Key (CN8).....	21
2.3.12 Audio Wafer (CN9).....	23
2.3.13 HDMI 1 (CN10).....	24
2.3.14 HDMI 2 (CN11).....	25
2.3.15 Dual USB 3.2 Gen 2 Type-A – 2 (CN12).....	26
2.3.16 RJ-45 LAN (CN13).....	27
2.3.17 Dual RJ-45 LAN (CN14)	28
2.3.18 Audio Jack (CN15).....	29
2.3.19 DC Jack (CN16).....	30
2.3.20 BIOS Update Wafer (CN17).....	31

2.3.21	DC Terminal Block (CN18)	32
Chapter 3 – Software Installation.....		33
3.1	Linux Setup	34
3.2	Windows Setup	34
3.2.1	GPIO Installation	35
Appendix A – Cables and Connectors.....		36
A.1	Cables and Connectors.....	37

Chapter 1

Product Specifications

1.1 Specifications

System

CPU	Intel® Core™ 3 Processor N355 Intel® Processor N250 Intel® Processor N150 Intel® Processor N97
Memory	Up to 16GB LPDDR5
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Storage	64GB eMMC (optional: up to 128GB)
Ethernet	GbE, RJ-45 x 2
Wi-Fi/BT	Via M.2 2230 E-Key x 1
Expansion	M.2 2230 E-Key x 1 (PCIe [x1], USB 2.0) M.2 2280 M-key x 1 (PCIe [x2])
Security	TPM 2.0 (fTPM, Onboard TPM IC optional by BOM)
OS Support	Windows® 11 LTSC Ubuntu 24.04 LTS Yocto 5.1

I/O

USB	USB 3.2 Gen 2 (Type-A) x 4
Display Port	HDMI 2.0b x 2
Ethernet	GbE, RJ-45 x 2
COM	RS-232/422/485 x 1
Audio	Line-out x 1 Mic-in x 1
GPIO	10-pin GPIO

Power Requirement

Power Requirement	9V – 36V DC-in, 5A
Power Supply Type	AT/ATX
Power Consumption (Typical)	15W – 37W

Mechanical

Mounting	DIN Rail, Wall Mount, VESA Mount
Dimensions (W x H x D)	5.98" x 4.9" x 1.54" (152mm x 124mm x 39mm)
Net Weight	TBD
Gross Weight	TBD

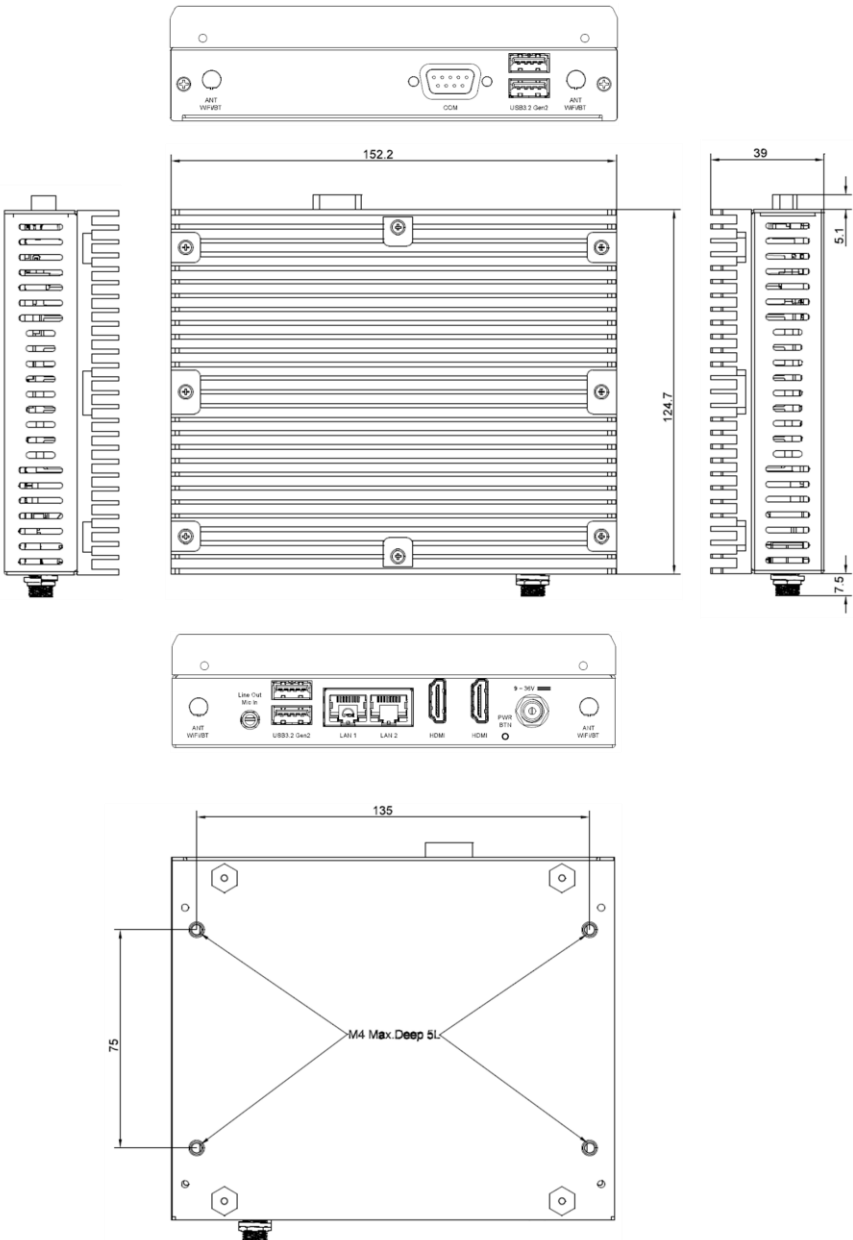
Environment

Operating Temperature	32°F – 122°F (0°C – 50°C) / 0.5 airflow
Operating Humidity	0% – 90% relative humidity, non-condensing
Storage Temperature	-4°F – 158°F (-20°C – 70°C)
MTBF	TBD
Certification	CE/FCC Class A, RoHS Compliant, REACH

Chapter 2

Hardware Information

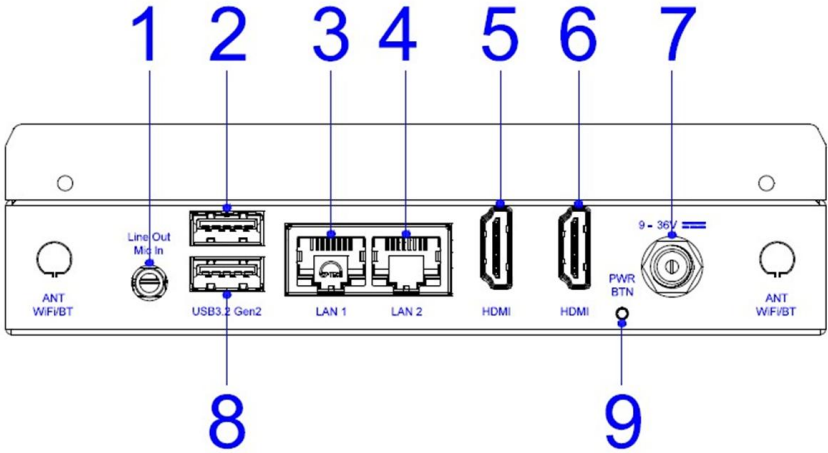
2.1 Dimensions



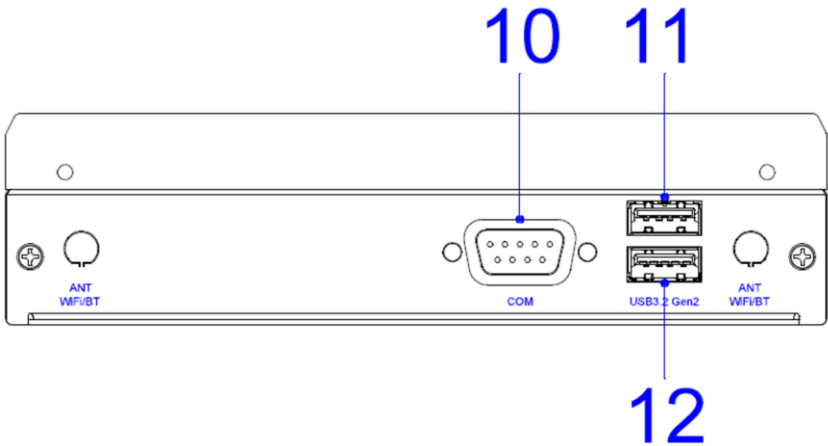
2.2 Jumpers and Connectors

System Level

Front I/O



Rear I/O



2.3 List of Jumpers, Connectors, & Physical Interfaces

Please refer to the table below for all of the system's physical ports and interfaces.

Label	Function
1	Audio Jack
2	USB Port (Type-A)
3	LAN Port
4	LAN Port
5	HDMI Port
6	HDMI Port
7	DC Power Jack
8	USB Port (Type-A)
9	Power Button
10	COM Port
11	USB Port (Type-A)
12	USB Port (Type-A)

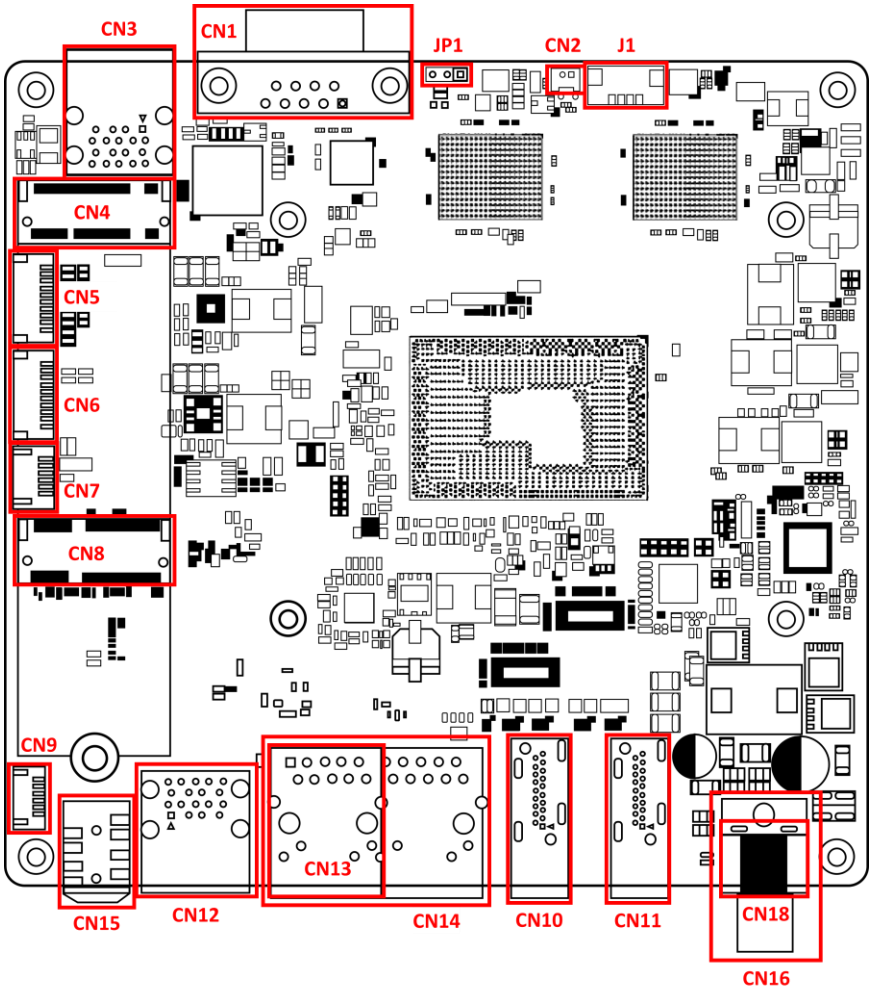
Please refer to the table below for all of the board's jumpers and connectors that you can configure for your application.

Label	Function
SW1	Power Button
J1	Fan Wafer
JP1	AT/ATX Selection
CN1	DB-9 COM Port
CN2	RTC Wafer
CN3	Dual USB 3.2 Gen 2 Type-A – 1
CN4	M.2 2280 M-Key
CN5	GPIO Wafer
CN6	USB & UART Wafer
CN7	Front Panel
CN8	M.2 2230 E-Key
CN9	Audio Wafer
CN10	HDMI 1
CN11	HDMI 2
CN12	Dual USB 3.2 Gen 2 Type-A – 2
CN13	RJ-45 LAN

Label	Function
CN14	Dual RJ-45 LAN
CN15	Audio Jack
CN16	DC Jack
CN17	BIOS Update Wafer
CN18	DC Terminal Block

Board Level

Component Side

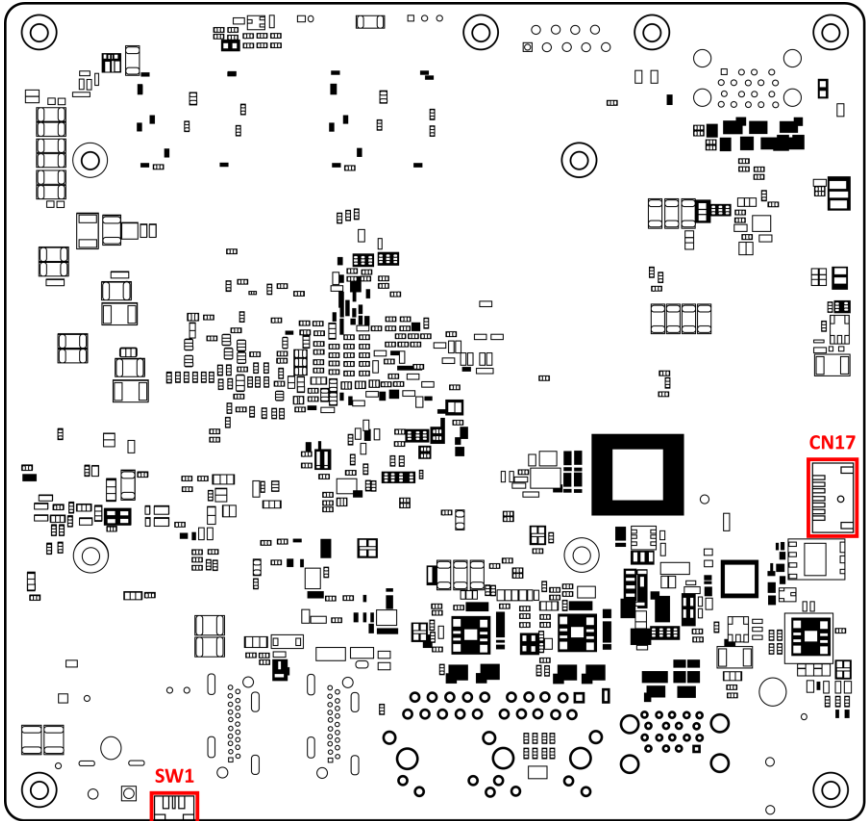


Solder Side

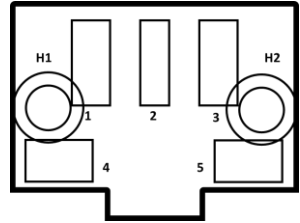
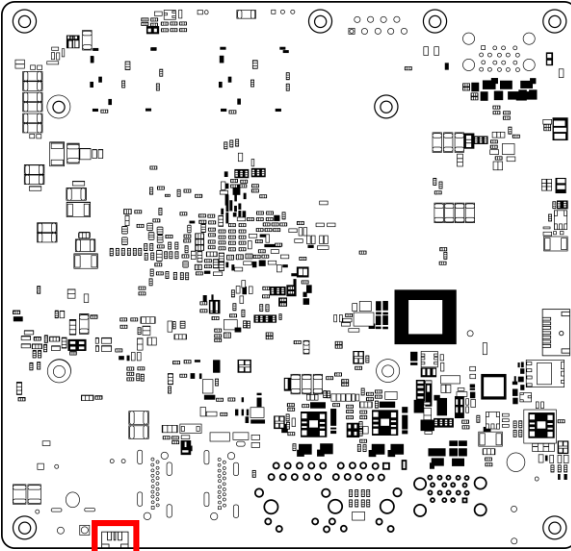
UP System

Intelli-TWL01 Edge

ITL-TWL01-SYS

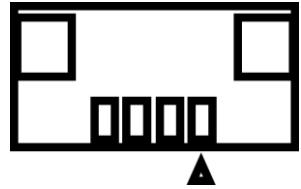
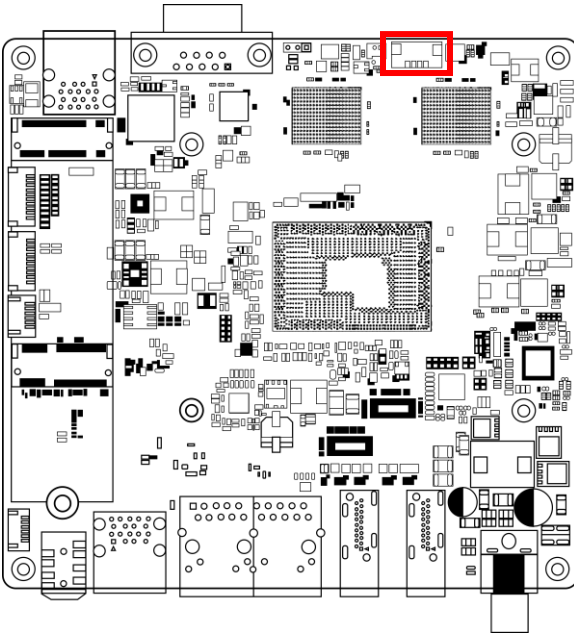


2.3.1 Power Button (SW1)



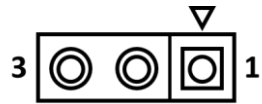
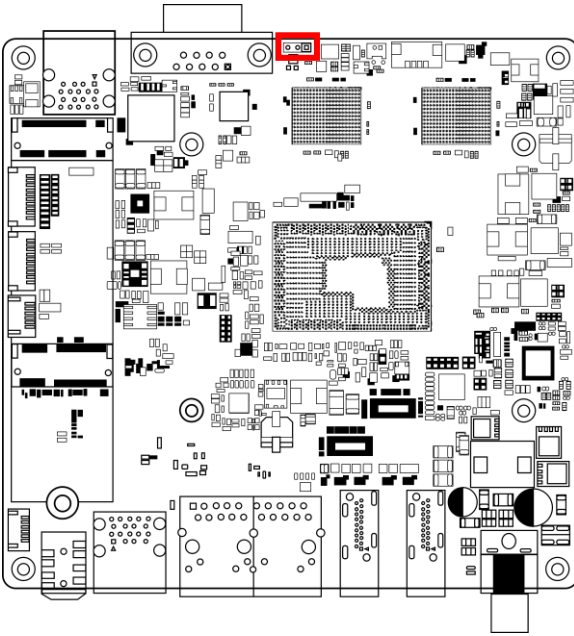
Pin	Signal	Pin	Signal
1	GND	2	Power Button Signal
3	GND	4	GND
5	GND		

2.3.2 Fan Wafer (J1)



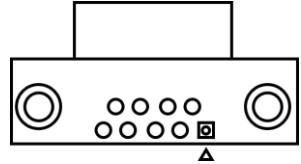
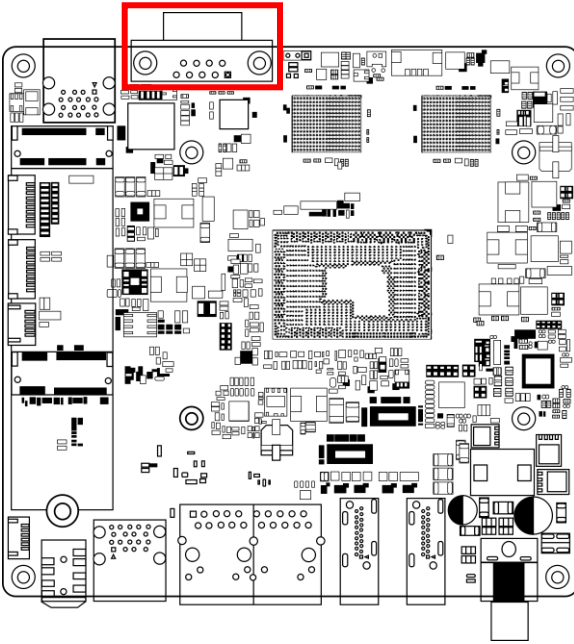
Pin	Signal	Pin	Signal
1	PWM	2	TACH
3	GND	4	+5V

2.3.3 AT/ATX Selection (JP1)



Pin	Signal	Pin	Signal
1	ATX_MODE	2	AT/ATX Select
3	AT_MODE (default)		

2.3.4 DB-9 COM Port (CN1)



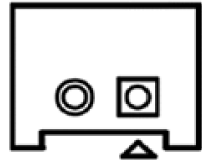
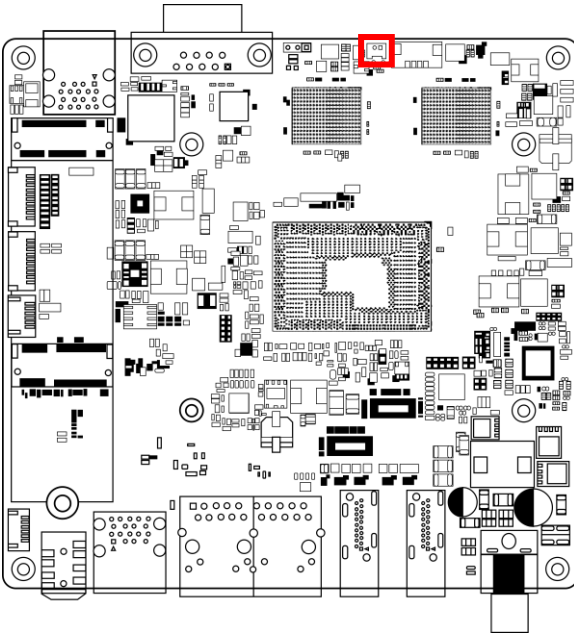
Pin	Signal	Pin	Signal	Pin	Signal
1	DCDA	2	RXA	3	TXA
4	DTRA	5	GND	6	DSRA
7	RTSA	8	CTSA	9	RIA

2.3.5 RTC Wafer (CN2)

UP System

Intelli TWL01 Edge

ITL-TWL01-SYS



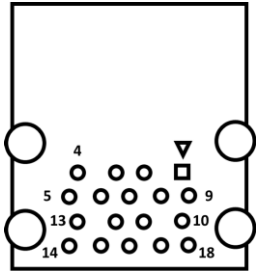
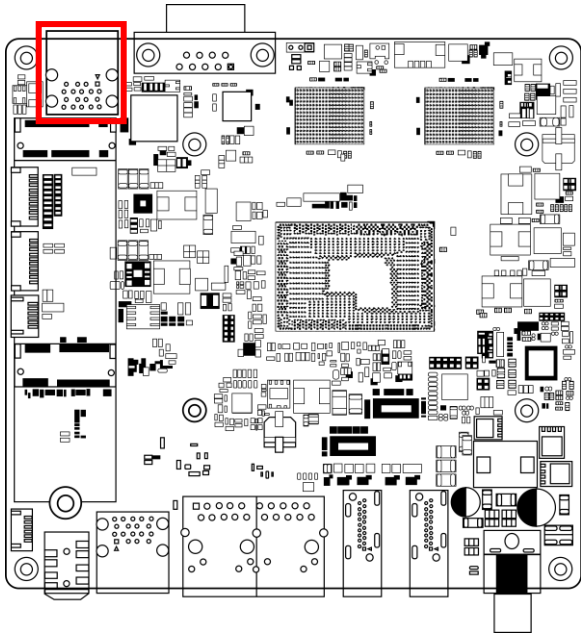
Pin	Signal	Pin	Signal
1	RTC_VCC	2	GND

2.3.6 Dual USB 3.2 Gen 2 Type-A – 1 (CN3)

UP System

Intelli-TWL01 Edge

ITL-TWL01-SYS



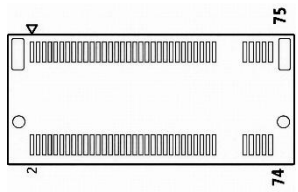
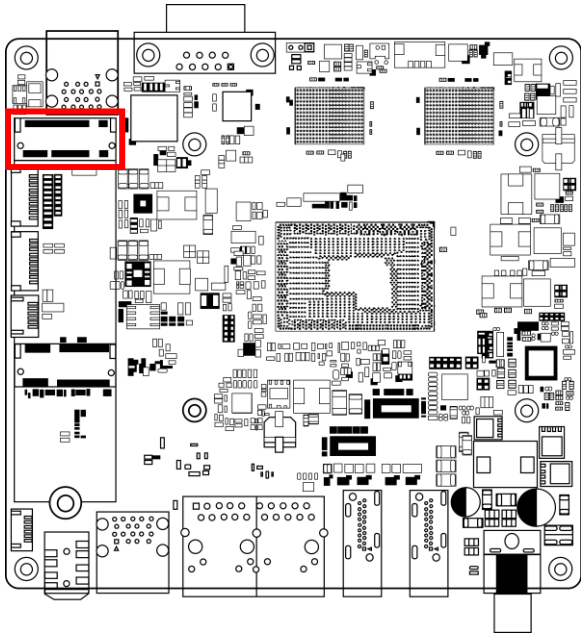
Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_D3-	3	USB2_D3+
4	GND	5	USB3_RX3-	6	USB3_RX3+
7	GND	8	USB3_TX3-	9	USB3_TX3+
10	+5V	11	USB2_D4-	12	USB2_D4+
13	GND	14	USB3_RX4-	15	USB3_RX4+
16	GND	17	USB3_TX4-	18	USB3_TX4+

2.3.7 M.2 2280 M-Key (CN4)

UP System

Intelli-TWL01 Edge

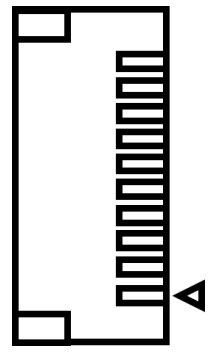
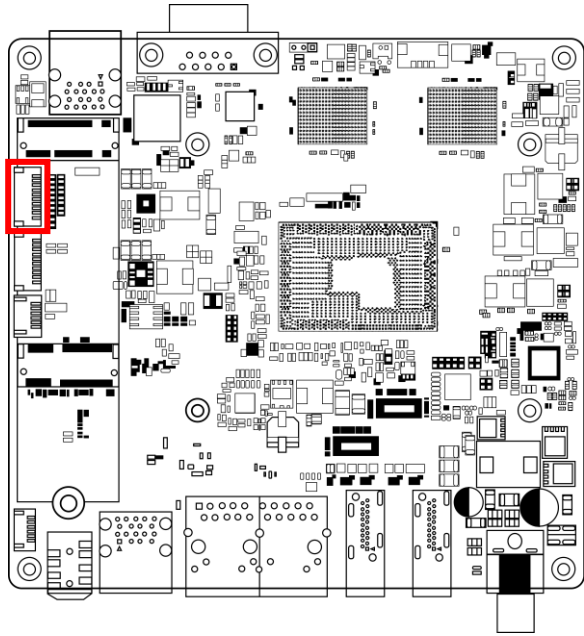
ITL-TWL01-SYS



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	+3.3V	3	NC
4	+3.3V	5	NC	6	NC
7	NC	8	NC	9	GND
10	NC	11	NC	12	+3.3V
13	NC	14	+3.3V	15	GND
16	+3.3V	17	NC	18	+3.3V
19	NC	20	NC	21	GND
22	NC	23	NC	24	NC
25	NC	26	NC	27	GND
28	NC	29	PCIE11_RX-	30	NC
31	PCIE11_RX+	32	NC	33	GND
34	NC	35	PCIE11_TX-	36	NC
37	PCIE11_TX+	38	M.2_2280_DEVSLP	39	GND
40	NC	41	PCIE12_RX+	42	NC

Pin	Signal	Pin	Signal	Pin	Signal
43	PCIE12_RX-	44	NC	45	GND
46	NC	47	PCIE12_TX-	48	NC
49	PCIE12_TX+	50	Platform Reset	51	GND
52	NC	53	PCIE_CLK3_D-	54	NC
55	PCIE_CLK3_D+	56	NC	57	GND
58	NC	59	Key-M	60	Key-M
61	Key-M	62	Key-M	63	Key-M
64	Key-M	65	Key-M	66	Key-M
67	NC	68	NC	69	SATAGP1
70	+3.3V	71	GND	72	+3.3V
73	GND	74	+3.3V/2.5A	75	GND

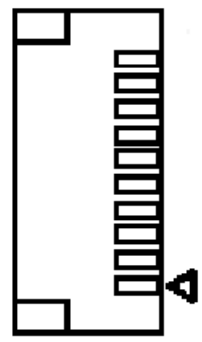
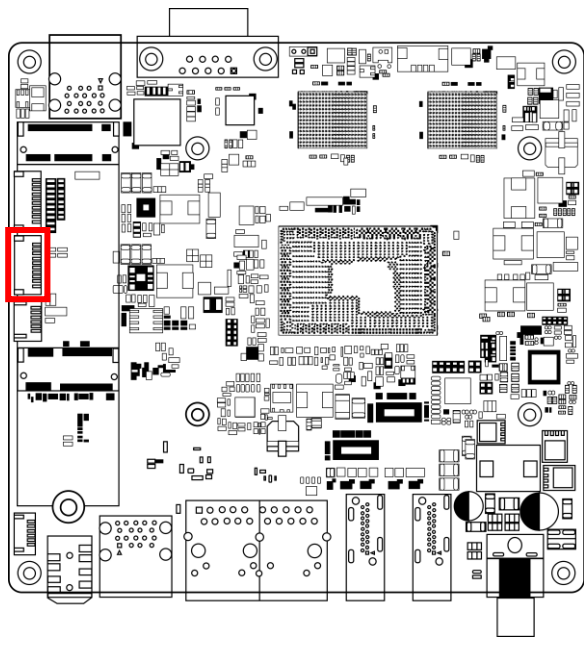
2.3.8 GPIO Wafer (CN5)



Pin	Signal	Pin	Signal	Pin	Signal
1	+3.3V	2	SIO_GPIO7	3	SIO_GPIO6

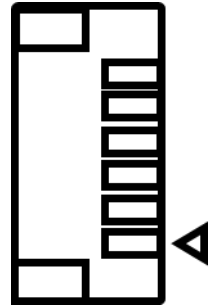
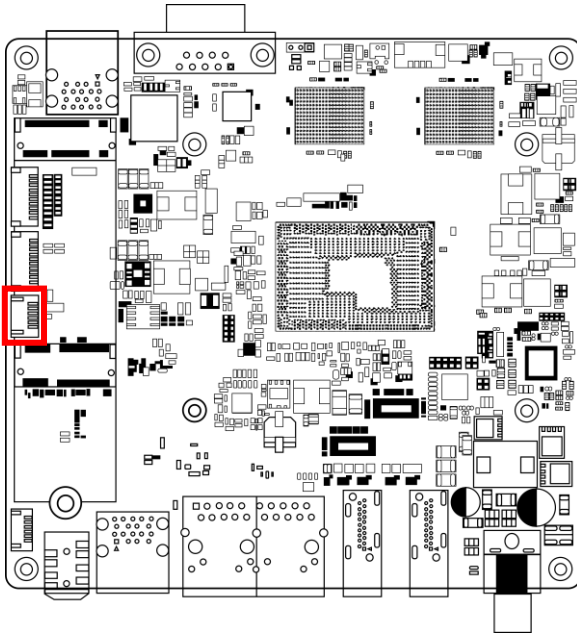
Pin	Signal	Pin	Signal	Pin	Signal
4	SIO_GPIO5	5	SIO_GPIO4	6	SIO_GPIO3
7	SIO_GPIO2	8	SIO_GPIO1	9	SIO_GPIO0
10	GND				

2.3.9 USB & UART Wafer (CN6)



Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_D7-	3	USB2_D7+
4	GND	5	+5V	6	USB2_D6-
7	USB2_D6+	8	GND	9	UART_RX
10	UART_TX				

2.3.10 Front Panel (CN7)



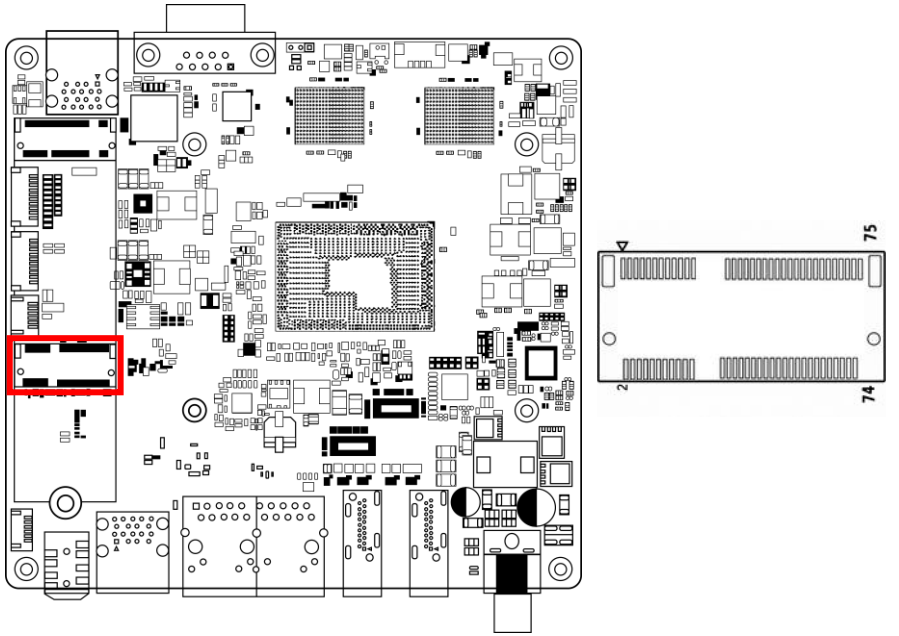
Pin	Signal	Pin	Signal
1	GND	2	HWRST#
3	GND	4	PWSIN#
5	GND	6	+5V

2.3.11 M.2 2230 E-Key (CN8)

UP System

Intelli-TWL01 Edge

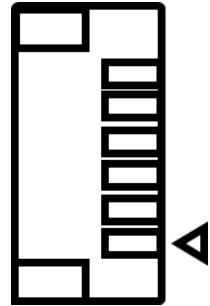
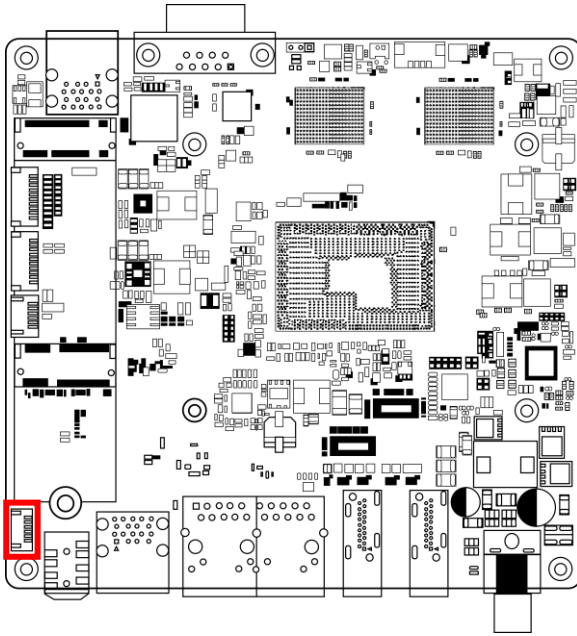
ITL-TWL01-SYS



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	+3.3V	3	USB2_D8+
4	+3.3V	5	USB2_D8-	6	NC
7	GND	8	NC	9	CNV_WR_LANE1_D-
10	CNV_RF_RESET	11	CNV_WR_LANE1_D+	12	NC
13	GND	14	CNV_MODEM_CLKREQ	15	CNV_WR_LANE0_D-
16	NC	17	CNV_WR_LANE0_D+	18	GND
19	GND	20	NC	21	CNV_WR_CLK_D-
22	CNV_BRI_RSP	23	CNV_WR_CLK_D+	24	Key-E
25	Key-E	26	Key-E	27	Key-E
28	Key-E	29	Key-E	30	Key-E
31	Key-E	32	CNV_RGI_DT	33	GND

Pin	Signal	Pin	Signal	Pin	Signal
34	CNV_RGI_RSP	35	PCIE10_TX+	36	CNV_BRI_DT
37	PCIE10_TX-	38	NC	39	GND
40	NC	41	PCIE10_RX+	42	NC
43	PCIE10_RX-	44	NC	45	GND
46	NC	47	PCIE_CLK2_D+	48	NC
49	PCIE_CLK2_D-	50	SUS_CLK	51	GND
52	Platform Reset	53	NC	54	BT_EN
55	PCIE_WAKE#	56	WIFI_EN	57	GND
58	NC	59	CNV_WT_LANE1_D-	60	NC
61	CNV_WT_LANE1_D+	62	NC	63	GND
64	NC	65	CNV_WT_LANE0_D-	66	NC
67	CNV_WT_LANE0_D+	68	NC	69	GND
70	NC	71	CNV_WT_CLK_D-	72	+3.3V
73	CNV_WT_CLK_D+	74	+3.3V	75	GND

2.3.12 Audio Wafer (CN9)



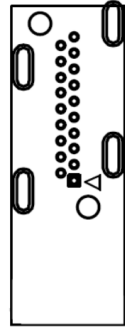
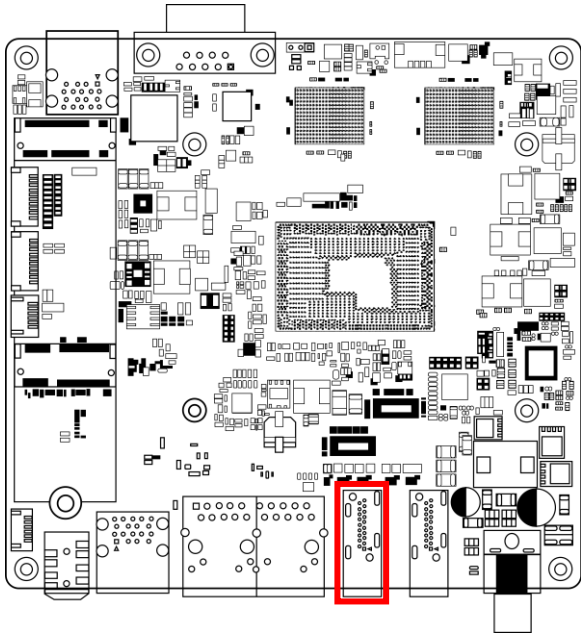
Pin	Signal	Pin	Signal
1	LOUT_R	2	LOUT_L
3	AUD_GND	4	NC
5	NC	6	MIC_LR_CN

2.3.13 HDMI 1 (CN10)

UP System

Intelli-TWL01 Edge

ITL-TWL01-SYS



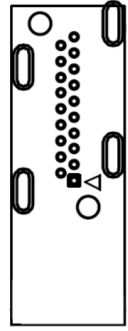
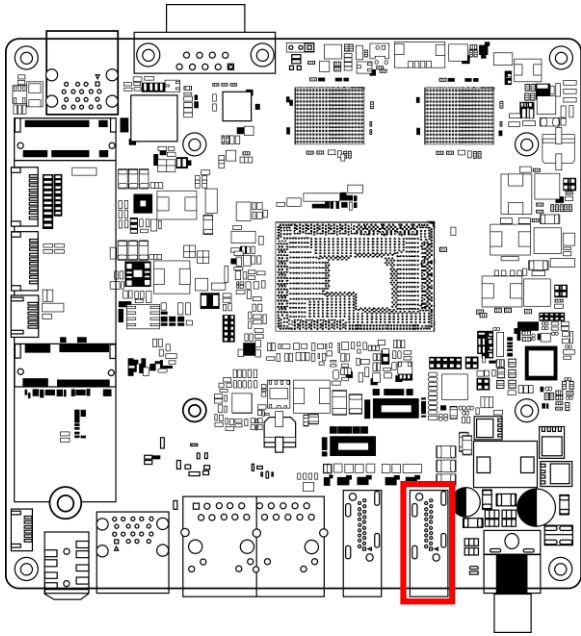
Pin	Signal	Pin	Signal	Pin	Signal
1	DDIO_TXP_HDMI_2	2	GND	3	DDIO_TXN_HDMI_2
4	DDIO_TXP_HDMI_1	5	GND	6	DDIO_TXN_HDMI_1
7	DDIO_TXP_HDMI_0	8	GND	9	DDIO_TXN_HDMI_0
10	DDIO_CLK_HDMI_DP	11	GND	12	DDIO_CLK_HDMI_DN
13	NC	14	NC	15	HDMI_SCL_1
16	HDMI_SDA_1	17	GND	18	+5V_HDMI_2
19	HDMI1_HPD_R				

2.3.14 HDMI 2 (CN11)

UP System

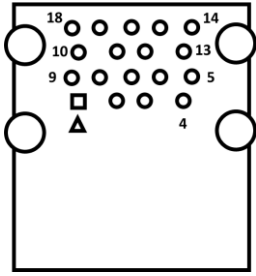
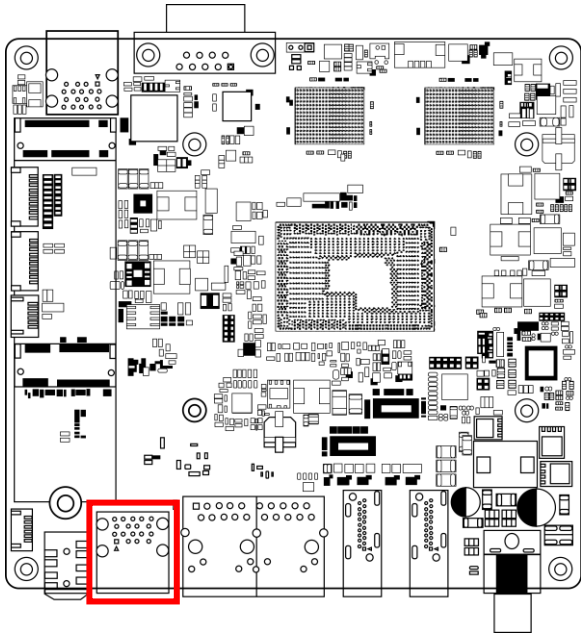
Intelli-TWL01 Edge

ITL-TWL01-SYS



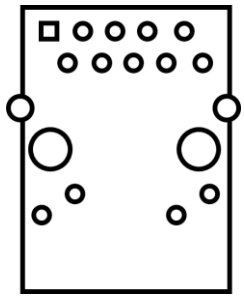
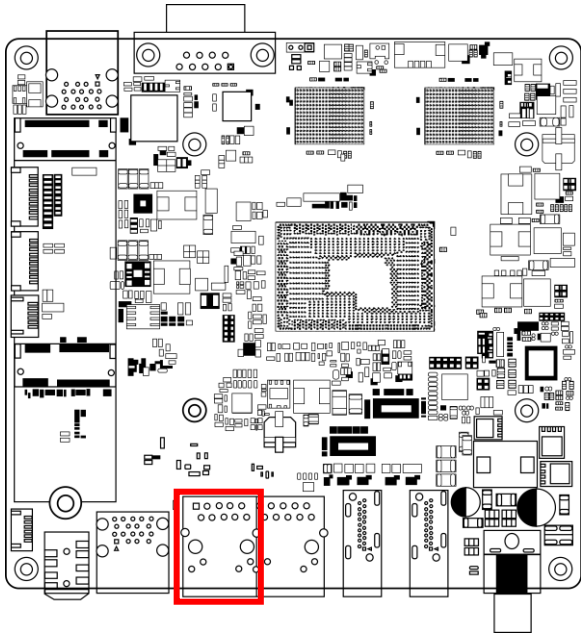
Pin	Signal	Pin	Signal	Pin	Signal
1	DDI1_TXP_HDMI_2	2	GND	3	DDI1_TXN_HDMI_2
4	DDI1_TXP_HDMI_1	5	GND	6	DDI1_TXN_HDMI_1
7	DDI1_TXP_HDMI_0	8	GND	9	DDI1_TXN_HDMI_0
10	DDI1_CLK_HDMI_DP	11	GND	12	DDI1_CLK_HDMI_DN
13	NC	14	NC	15	HDMI_SCL
16	HDMI_SDA	17	GND	18	+5V_HDMI_1
19	HDMI_HPD_R				

2.3.15 Dual USB 3.2 Gen 2 Type-A – 2 (CN12)



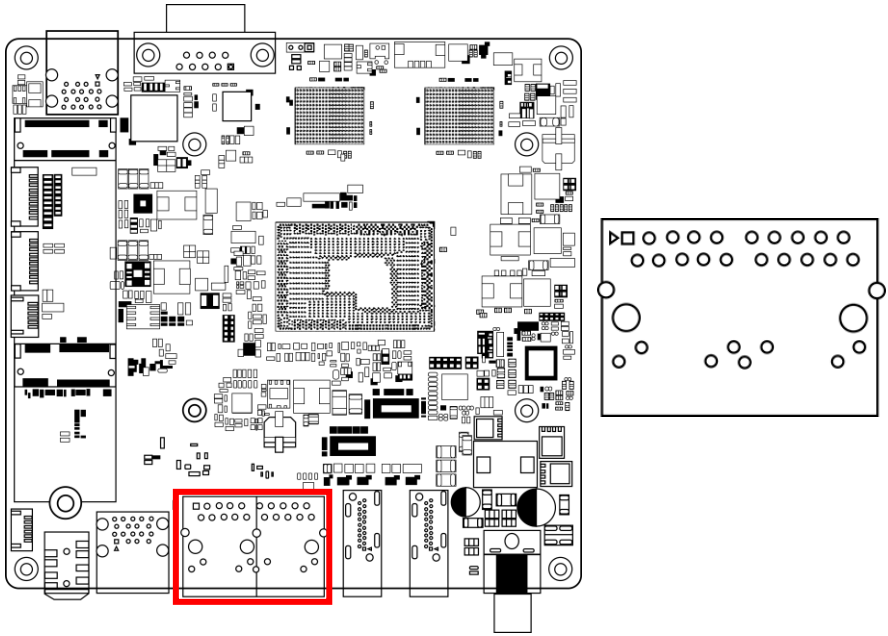
Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_D1-	3	USB2_D1+
4	GND	5	USB3_RX1-	6	USB3_RX1+
7	GND	8	USB3_TX1-	9	USB3_TX1+
10	+5V	11	USB2_D2-	12	USB2_D2+
13	GND	14	USB3_RX2-	15	USB3_RX2+
16	GND	17	USB3_TX2-	18	USB3_TX2+

2.3.16 RJ-45 LAN (CN13)



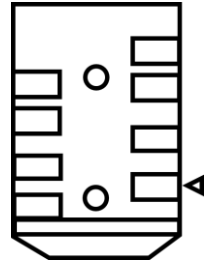
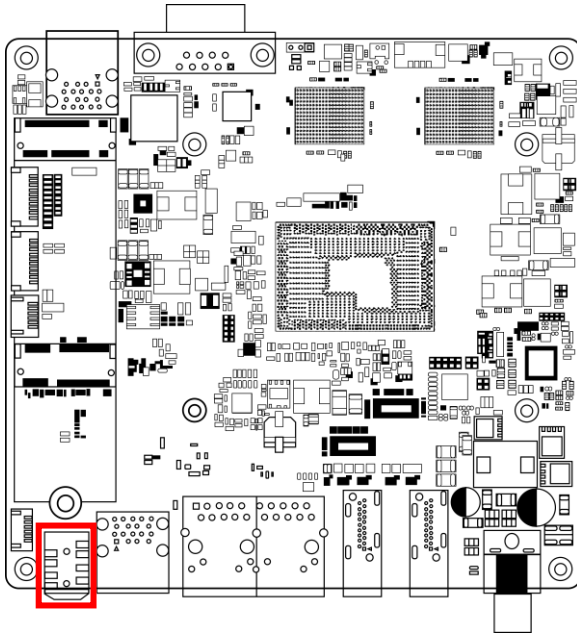
Pin	Signal	Pin	Signal	Pin	Signal
P1	LAN2_MDI0+	P2	LAN2_MDI0-	P3	LAN2_MDI1+
P4	LAN2_MDI1-	P5	LAN2_CT	P6	LAN2_CT
P7	LAN2_MDI2+	P8	LAN2_MDI2-	P9	LAN2_MDI3+
P10	LAN2_MDI3-	11	LAN2_LINK1000#	12	LAN2_LINK100#
13	LAN2_ACTLEDN	14	LAN2_ACTLEDP		

2.3.17 Dual RJ-45 LAN (CN14)



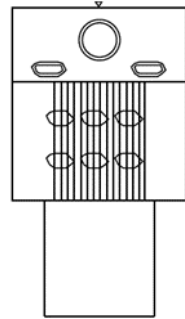
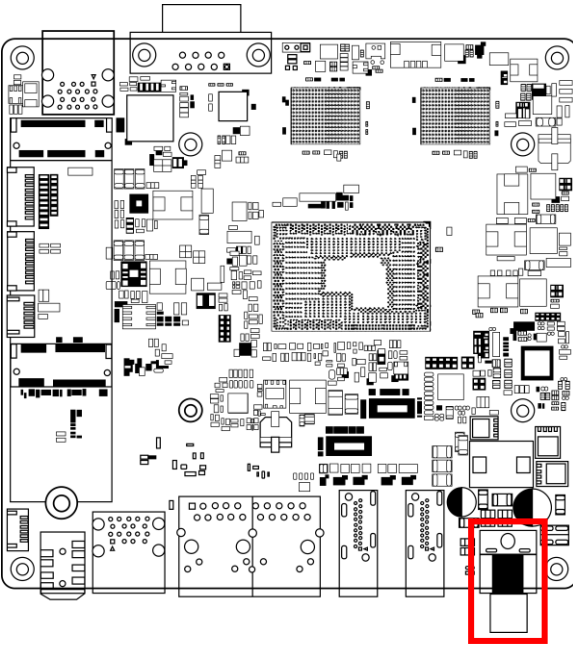
Pin	Signal	Pin	Signal
1L1	LAN2_ACTLEDN	2L1	LAN1_ACTLEDN
1L2	LAN2_ACTLEDP	2L2	LAN1_ACTLEDP
1L3	LAN2_LINK1000#	2L3	LAN1_LINK1000#
1L4	LAN2_LINK100#	2L4	LAN1_LINK100#
1P1	LAN2_MDIO+	2P1	LAN1_MDIO+
1P2	LAN2_MDIO-	2P2	LAN1_MDIO-
1P3	LAN2_MDIO1+	2P3	LAN1_MDIO1+
1P4	LAN2_MDIO1-	2P4	LAN1_MDIO1-
1P5	LAN2_CT	2P5	LAN1_CT
1P6	LAN2_CT	2P6	LAN1_CT
1P7	LAN2_MDIO2+	2P7	LAN1_MDIO2+
1P8	LAN2_MDIO2-	2P8	LAN1_MDIO2-
1P9	LAN2_MDIO3+	2P9	LAN1_MDIO3+
1P10	LAN2_MDIO3-	2P10	LAN1_MDIO3-

2.3.18 Audio Jack (CN15)



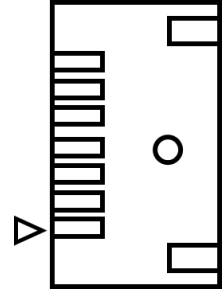
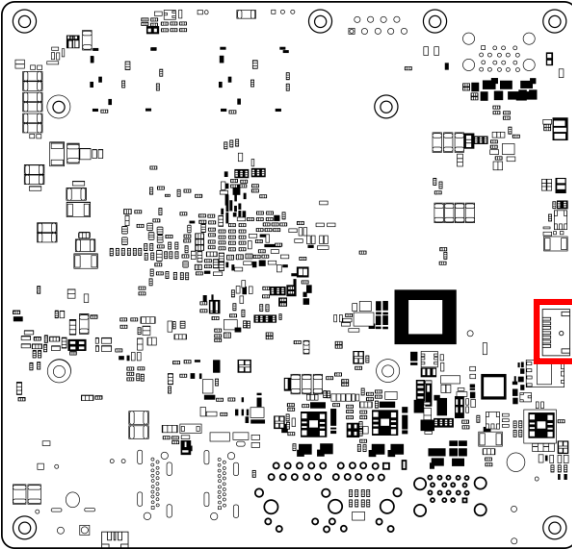
Pin	Signal	Pin	Signal
1	MIC_LR_CN	2	AUD_GND
3	LOUT_R	4	NC
5	NC	6	NC
7	NC	8	LOUT_L

2.3.19 DC Jack (CN16)



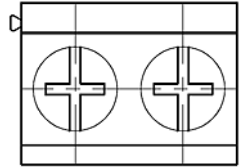
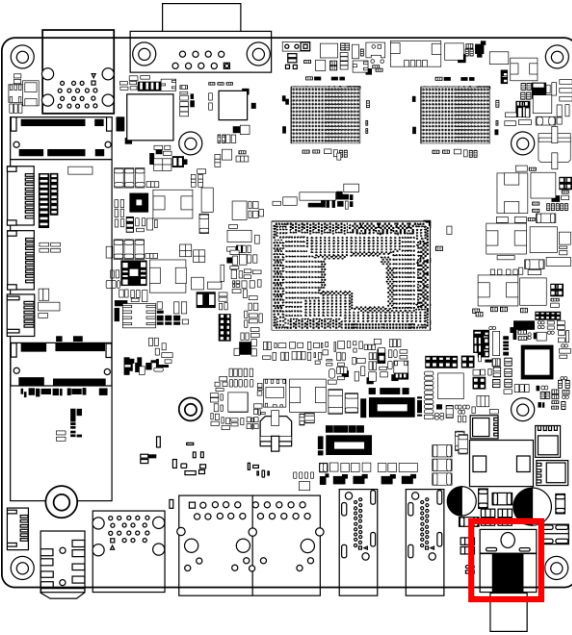
Pin	Signal	Pin	Signal
1	DC_IN	2	GND
3	GND		

2.3.20 BIOS Update Wafer (CN17)



Pin	Signal	Pin	Signal
1	SPI_BIOS_MISO	2	GND
3	SPI_BIOS_CLK	4	+1.8V
5	SPI_BIOS_MOSI	6	SPI_BIOS_CS0#
7	NC		

2.3.21 DC Terminal Block (CN18)



Pin	Signal	Pin	Signal
1	DC_IN	2	GND_SIGNAL

Chapter 3

Software Installation

3.1 Linux Setup

The Intelli TWL01 Edge supports Linux operating systems (see Chapter 1 for specifications). For instructions on how to install a Linux OS onto your Intelli TWL01 Edge, you can find several guides and tutorials on the AAEON website for both installing supported distributions as well as porting your own Linux build here:

<https://www.aaeon.com/en/product/list/up-boards-and-upsystems>

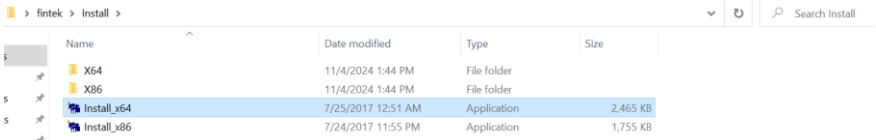
3.2 Windows Setup

Drivers for the Intelli TWL01 Edge can be downloaded from the AAEON website by following the link

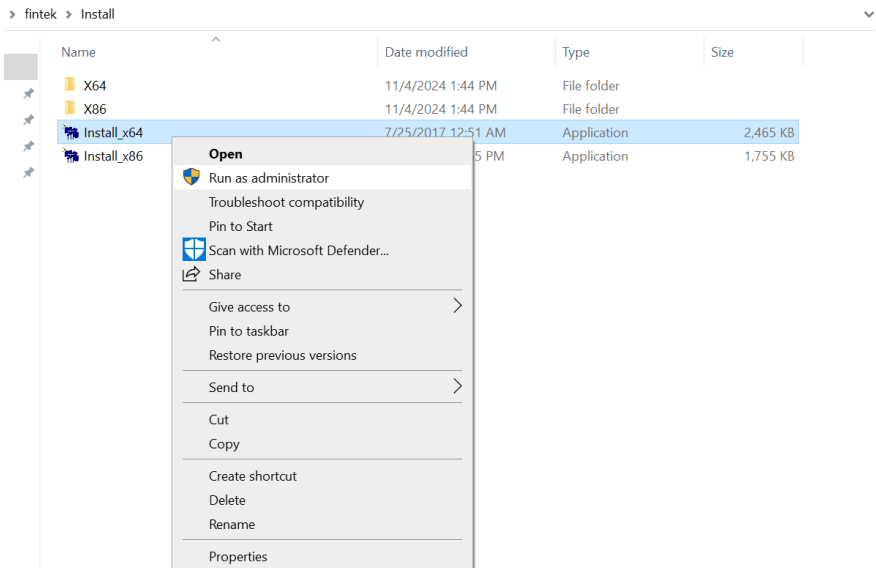
<https://www.aaeon.com/en/product/detail/up-system-intelli-tw01-edge/download> and navigating to the Downloads section to find all relevant drivers.

3.2.1 GPIO Installation

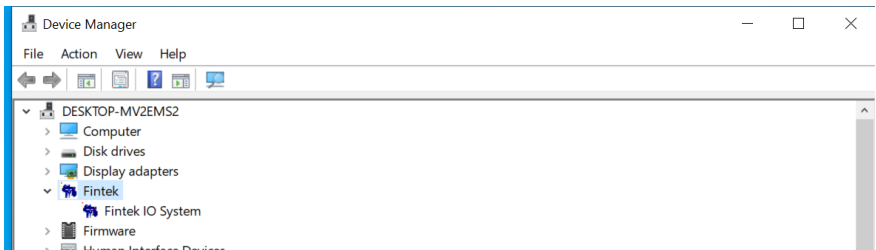
1. Enter the "install" folder.



2. Right-click and select "Run as administrator" to install driver.



3. When installation is complete, open device manager to locate device:



Appendix A

Cables and Connectors

A.1 Cables and Connectors

This table provides detailed information about the cables and connectors used by the Intelli TWL01 Edge. If you have any questions about the configuration of your system, please contact your AAEON sales representative.

Connector Label	Function	Mating Connector		Cable P/N
		Vendor	Model no	
CN5	GPIO	PINREX	710-74-10TWRG.NY9T	170X001077
CN6	USB2 & UART	PINREX	710-74-10TWRG.NY9T	170010015G
CN7	Front Panel	JST	SM06B-SRSS-TB(LF)(SN)	170X000306
CN17	BIOS Update	PINREX	710-74-07TWRG	1701140271

Connector Label	Description	Mating Cable Description
CN5	GPIO*8	(TF)Cable.10P:11002H00 to 10P:12541H00.100mm. FLYINGWAY TECH.FWAA-2068.for UP-ASL02 GPIO wafer & SPI wafer
CN6	USB2*2 + UART*1	(TF)USB Cable.10P 1.0mm Housing.USB A(F).15cm
CN7	Power Button	(TF)Cable.to 6P 1.00mm housing.Power switch cable.SW w/green LED.20cm.FLYINGWAY.FWAA-1348
CN17	Flash BIOS Update	(TF)Flat Cable.2*7P2.54mm.7P1mm Housing.27cm.for FlashBios