

UPCR-CPL3

Connector Plus

QIG

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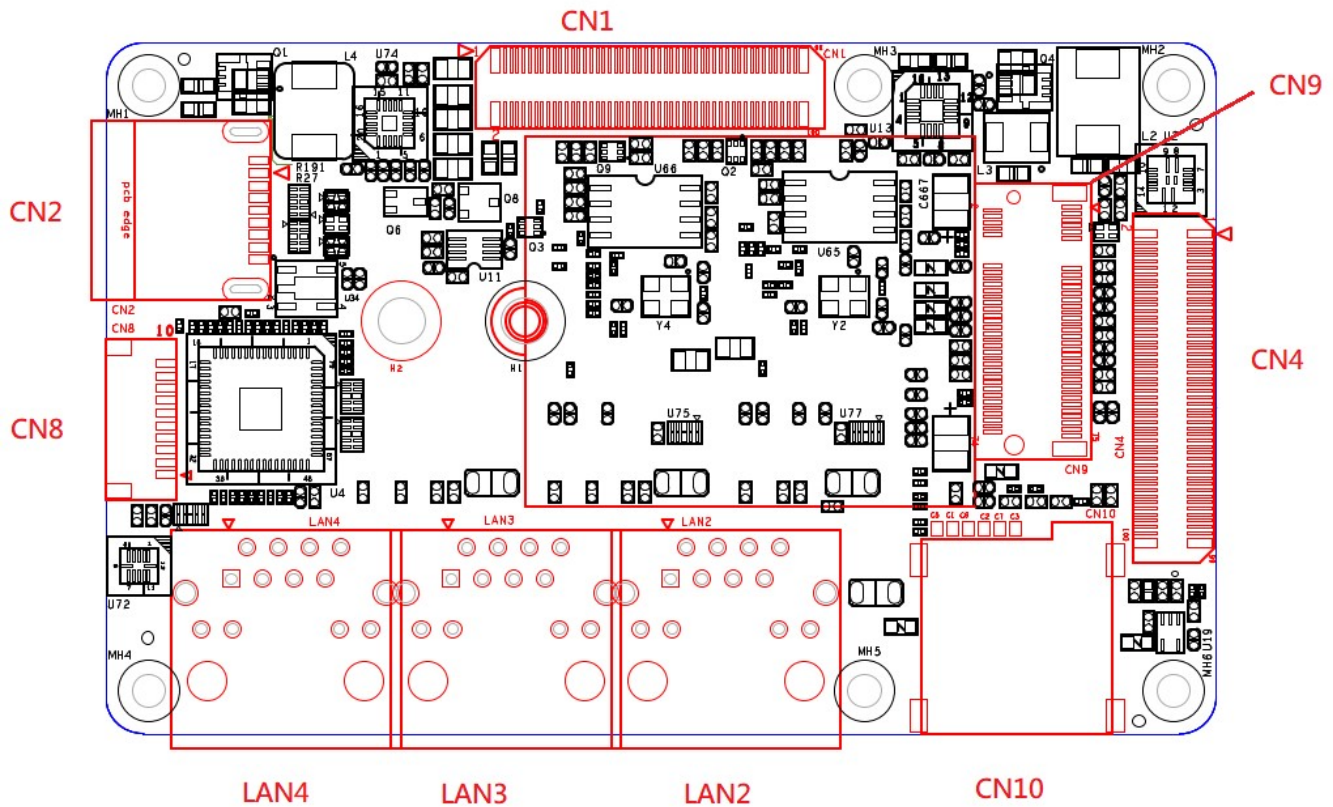
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2. Connector References

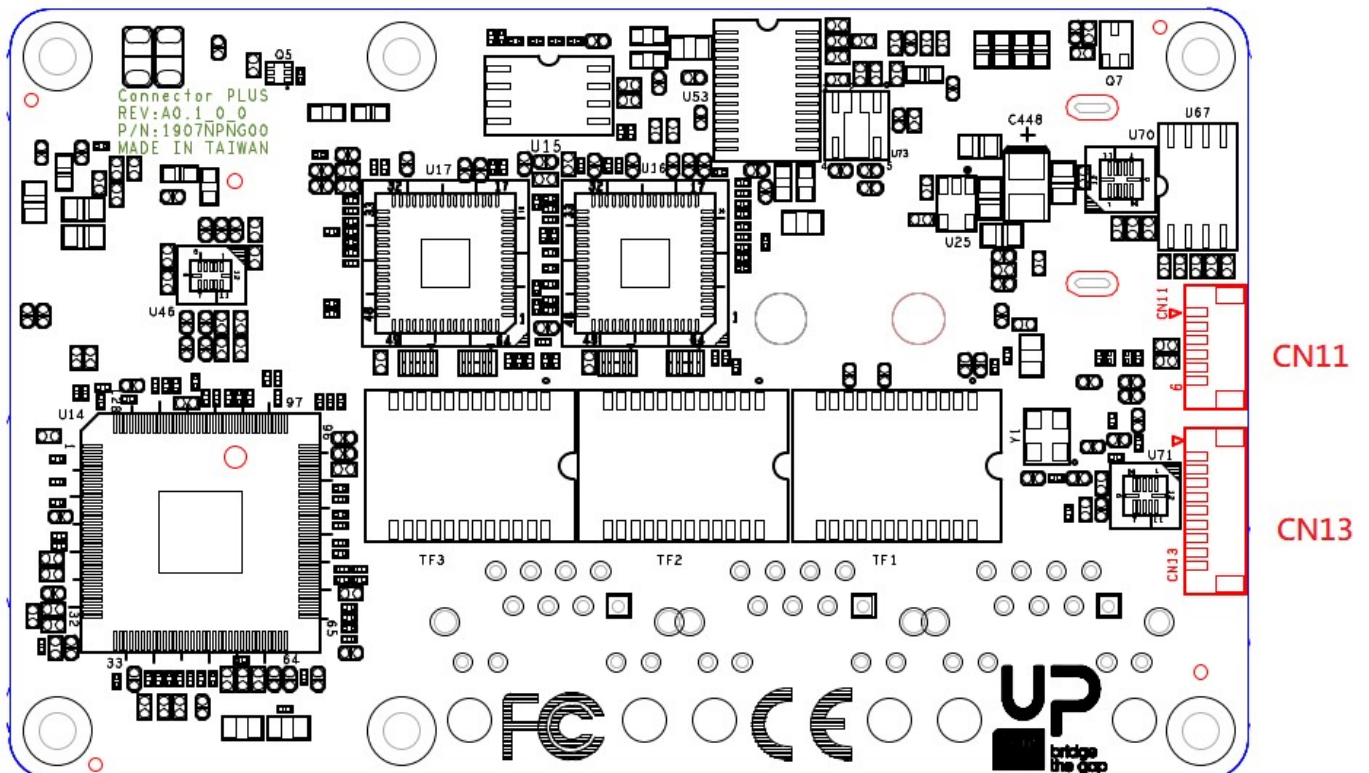
Connector Plus Connector Index

Reference Designation	Functional Description	Connector Type
CN1	Docking I	(TF)Board-Board Connector.100P.180D(F).SMD.Pitch=0.5mm.H=6.05mm.Panasonic.AXK5S00347YG
CN4	Docking II	(TF)Board-Board Connector.100P.180D(F).SMD.Pitch=0.5mm.H=6.05mm.Panasonic.AXK5S00347YG
CN8	WHL Function Connector	(TF)Wafer Box.10P.90D(M).SMD.1.0mm.PINREX.710-74-10TWR6
CN2	USB3.0	(TF)USB3.0 Connector.Single Port.Type A.9P.90D(F).SMD.Trontek.930-00406-A91-22
CN9	M.2 Key B Slot	(TF)M.2 KEY-B SLOT.75P.90D(F).SMD.H=8.5mm.FOXCONN.2E0BC21-S85BB-7H
CN10	SIM Slot	(TF).Micro SIM Card Socket.SMD.6P.90D.FEMALE.SHENG DA.CS-0025-06135.Push-Push type
LAN2	LAN	(TF)RJ45.12P.90D(F).Notch down.W/LED(L-G:R-O/G).DIP.UDE.RC1-1Q00000D
LAN3	LAN	(TF)RJ45.12P.90D(F).Notch down.W/LED(L-G:R-O/G).DIP.UDE.RC1-1Q00000D
LAN4	LAN	(TF)RJ45.12P.90D(F).Notch down.W/LED(L-G:R-O/G).DIP.UDE.RC1-1Q00000D
CN11	UART	(TF)Wafer Box.6P.180D.(M).SMD.1.0mm.w/ CAP.CATCH.1204-700-06SMR
CN13	SPI	(TF)WAFER BOX.9P.180D(M).SMD.1.0mm.w/CAP.PINREX.710-H73-095WE1

TOP View :



Bottom View :



3.Connector Plus Connector Pin Assignments

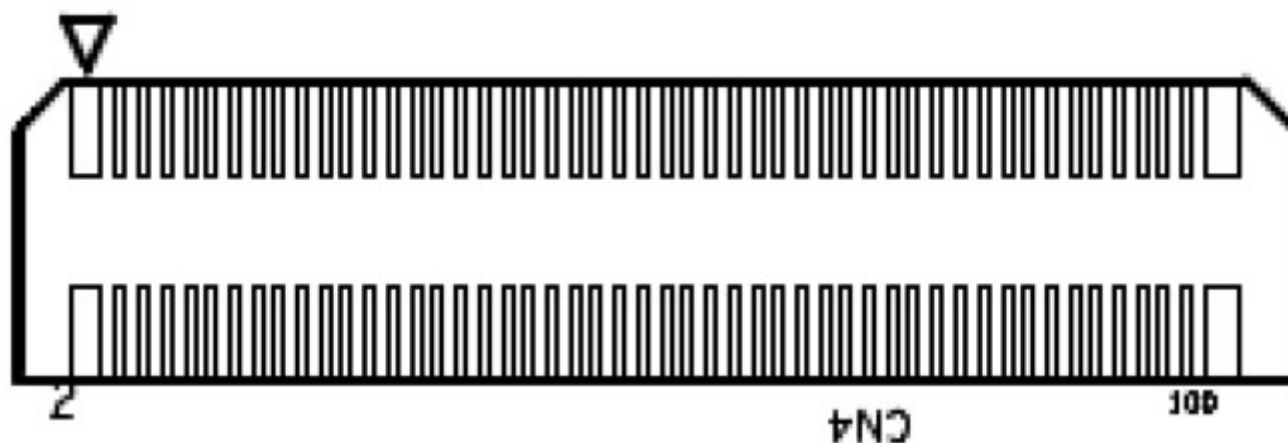
3.1CN1: Docking I



Pin	Signal Description	Pin	Signal Description
1	+V5A_CON	2	+V5A_CON
3	+V5A_CON	4	+V5A_CON
5	+V5A_CON	6	+V5A_CON
7	+V5A_CON	8	+V5A_CON
9	GND	10	GND
11	PLTRST_PNLBKLEN	12	LPSS_UART1_RTS
13	NC	14	LPSS_UART1_CTS
15	PM_SLP_S3#3V3	16	LPSS_UART1_TXD
17	PCIE_CLKREQ3#	18	LPSS_UART1_RXD
19	NC	20	GND
21	GND	22	NC
23	SIO_SPI_0_TXD	24	NC
25	SIO_SPI_0_RXD	26	NC
27	SIO_SPI_0_CLK	28	NC
29	SIO_SPI_0_FS0	30	NC
31	SIO_SPI_0_FS1	32	ISH_GPIO_0
33	GND	34	NC
35	NC	36	NC
37	NC	38	NC
39	NC	40	NC
41	NC	42	NC
43	GND	44	NC

45	NC	46	NC
47	NC	48	NC
49	NC	50	GND
51	NC	52	NC
53	GND	54	NC
55	NC	56	GND
57	NC	58	NC
59	GND	60	NC
61	NC	62	GND
63	NC	64	NC
65	GND	66	NC
67	NC	68	GND
69	NC	70	NC
71	GND	72	GND
73	I2C_SDA0	74	NC
75	I2C_SCL0	76	NC
77	GND	78	NC
79	NC	80	NC
81	NC	82	ISH_GPIO_11
83	GND	84	ISH_GPIO_12
85	NC	86	ISH_GPIO_13
87	NC	88	ISH_GPIO_14
89	GND	90	NC
91	NC	92	NC
93	NC	94	GND
95	NC	96	NC
97	NC	98	NC
99	NC	100	NC

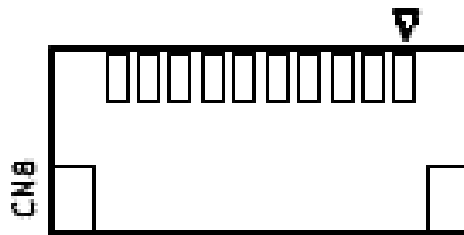
3.2 CN4: Docking II



Pin	Signal Description	Pin	Signal Description
1	+12V	2	+12V
3	+12V	4	+12V
5	+12V	6	+12V
7	+12V	8	+12V
9	NC	10	NC
11	NC	12	GND
13	NC	14	NC
15	NC	16	NC
17	GND	18	GND
19	NC	20	NC
21	NC	22	NC
23	GND	24	GND
25	NC	26	NC
27	NC	28	NC
29	GND	30	GND
31	PCIE_REFCLK0_P	32	PCIE_REFCLK1_P
33	PCIE_REFCLK0_N	34	PCIE_REFCLK1_N
35	GND	36	GND
37	PCIE_RXP0	38	PCIE_RXP1
39	PCIE_RXN0	40	PCIE_RXN1
41	GND	42	GND

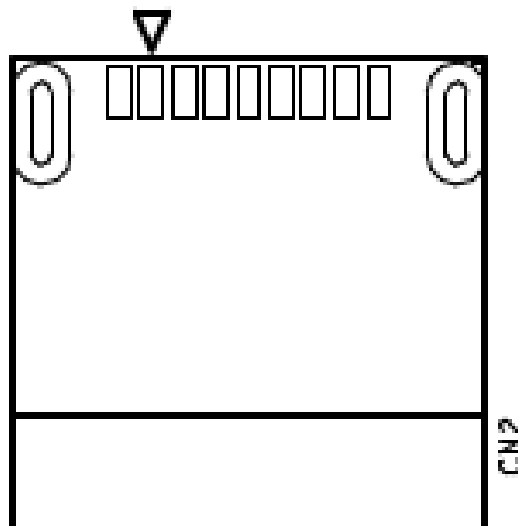
43	PCIE_TXP0	44	PCIE_TXP1
45	PCIE_TXN0	46	PCIE_TXN1
47	GND	48	GND
49	PCIE_REFCLK2_P	50	PCIE_P3_USB3_P4_TXP
51	PCIE_REFCLK2_N	52	PCIE_P3_USB3_P4_TXN
53	GND	54	GND
55	PCIE_TXP2	56	PCIE_P3_USB3_P4_RXP
57	PCIE_TXN2	58	PCIE_P3_USB3_P4_RXN
59	GND	60	GND
61	PCIE_RXP2	62	SATA_P1_USB3_P5_RXN
63	PCIE_RXN2	64	SATA_P1_USB3_P5_RXP
65	GND	66	GND
67	PCIE_P4_USB3_P3_TXP	68	SATA_P1_USB3_P5_TXN
69	PCIE_P4_USB3_P3_TXN	70	SATA_P1_USB3_P5_TXP
71	GND	72	GND
73	PCIE_P4_USB3_P3_RXP	74	NC
75	PCIE_P4_USB3_P3_RXN	76	NC
77	GND	78	GND
79	USB2_DP3	80	NC
81	USB2_DN3	82	NC
83	GND	84	GND
85	USB2_DP4	86	NC
87	USB2_DN4	88	NC
89	GND	90	GND
91	NC	92	TP
93	PLTRST_PNLBKLEN	94	NC
95	PCIE_WAKE0_N	96	PCIE_CLKREQ0#
97	PCIE_WAKE1_N	98	PCIE_CLKREQ1#
99	PCIE_WAKE2_N	100	PCIE_CLKREQ2#

3.3 CN8: WHL Function Connector



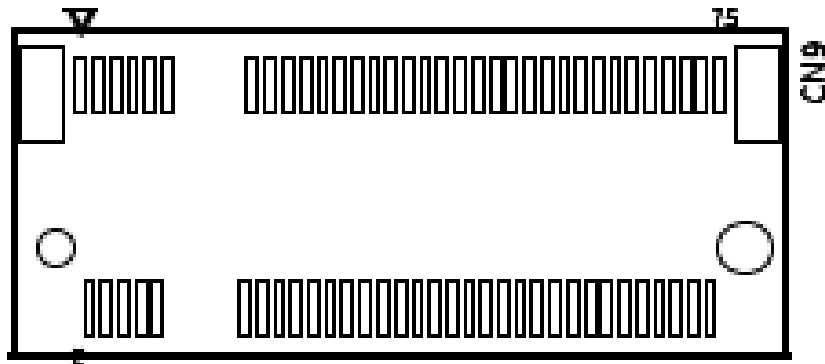
Pin	Signal Description	Pin	Signal Description
1	NC	2	I2C_SCL0
3	I2C_SDA0	4	GND
5	PM_SLP_S3#_3P3	6	PCIE_CLKREQ3#
7	ISH_GPIO_12	8	ISH_GPIO_13
9	ISH_GPIO_14	10	ISH_GPIO_11

3.4 CN2: USB 3.0 Type A Connector



Pin	Signal Description	Pin	Signal Description
1	+V5A_USB_1	2	USB2_C_DN2
3	USB2_C_DP2	4	GND
5	USB3_RXN_CON_P2	6	USB3_RXP_CON_P2
7	GND	8	USB3_TXN_CON_P2
9	USB3_TXP_CON_P2		
H1	GND	H2	GND

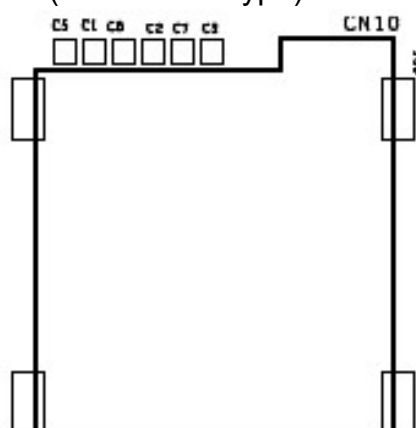
3.5 CN9: M.2 Key B Slot with 3042/3052 for 4G/5G Module



Pin	Signal Description	Pin	Signal Description
1	NC	2	+3.3V_NGFF_3052
3	GND	4	+3.3V_NGFF_3052
5	GND	6	FULL_CARD_POWER
7	5G_DP	8	5GPW_EN
9	5G_DN	10	NC
11	GND	M.2 Key B	
M.2 Key B		20	NC
21	NC	22	NC
23	5G_Wake_Host	24	NC
25	NC	26	NC
27	GND	28	NC
29	PCIE_P3_USB3_P4_RXN_C	30	P_UIM_RST
31	PCIE_P3_USB3_P4_RXP_C	32	P_UIM_CLK
33	GND	34	P_UIM_DAT
35	PCIE_P3_USB3_P4_TXN_C	36	P_UIM_PWR
37	PCIE_P3_USB3_P4_TXP_C	38	PCIE_BOOT_Disable
39	GND	40	NC
41	PERn0_R-	42	NC
43	PERp0_R+	44	NC
45	GND	46	NC
47	PETn0_T-	48	NC
49	PETp0_T+	50	BUF_PLT_RST#

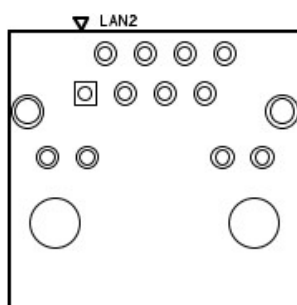
51	GND	52	PCIE_CLKREQ2#
53	CLK_PCIE_M2_3042_N	54	PCIE_WAKE2_N
55	CLK_PCIE_M2_3042_P	56	NC
57	GND	58	NC
59	NC	60	NC
61	NC	62	NC
63	NC	64	NC
65	NC	66	NC
67	WWAN_RESET	68	NC
69	M.2_3052_DET	70	+3.3V_NGFF_3052
71	GND	72	+3.3V_NGFF_3052
73	GND	74	+3.3V_NGFF_3052
75	GND		

3.6 CN10: SIM Slot without detect (Push-Push Type)



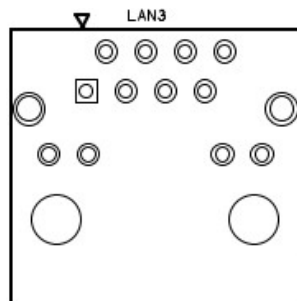
Pin	Signal Description	Pin	Signal Description
C1	P_UIM_PWRF	C2	P_UIM_RSTC
C3	P_UIM_CLKC		
C5	GND_UIM	C6	NC
C7	P_UIM_DATC		
P1	GND_UIM	P2	GND_UIM
P3	GND_UIM	P4	GND_UIM

3.7 LAN2: LAN2



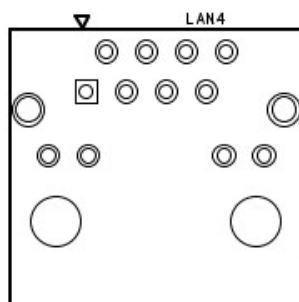
Pin	Signal Description	Pin	Signal Description
1	LAN2_TMDI0+	2	LAN2_TMDI0-
3	LAN2_TMDI1+	4	LAN2_TMDI2+
5	LAN2_TMDI2-	6	LAN2_TMDI1-
7	LAN2_TMDI3+	8	LAN2_TMDI3-
9	LAN2_LED_1000#	10	LAN2_LED_100#
11	LAN2_ACTLEDN	12	LAN2_ACTLEDP
H1	NC	H2	NC
H3	GND_CHASSIS_LAN	H4	GND_CHASSIS_LAN

3.8 LAN3: LAN3



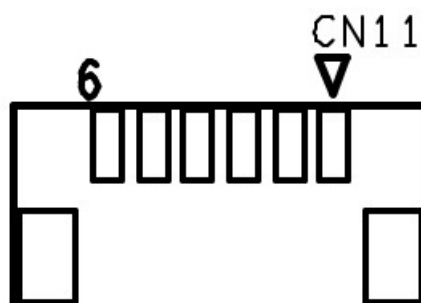
Pin	Signal Description	Pin	Signal Description
1	LAN3_TMDI0+	2	LAN3_TMDI0-
3	LAN3_TMDI1+	4	LAN3_TMDI2+
5	LAN3_TMDI2-	6	LAN3_TMDI1-
7	LAN3_TMDI3+	8	LAN3_TMDI3-
9	LAN3_LED_1000#	10	LAN3_LED_100#
11	LAN3_ACTLEDN	12	LAN3_ACTLEDP
H1	NC	H2	NC
H3	GND_CHASSIS_LAN	H4	GND_CHASSIS_LAN

3.9 LAN4: LAN4



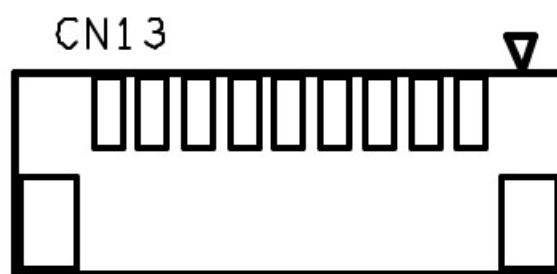
Pin	Signal Description	Pin	Signal Description
1	LAN4_TMDI0+	2	LAN4_TMDI0-
3	LAN4_TMDI1+	4	LAN4_TMDI2+
5	LAN4_TMDI2-	6	LAN4_TMDI1-
7	LAN4_TMDI3+	8	LAN4_TMDI3-
9	LAN4_LED_1000#	10	LAN4_LED_100#
11	LAN4_ACTLEDN	12	LAN4_ACTLEDP
H1	NC	H2	NC
H3	GND_CHASSIS_LAN	H4	GND_CHASSIS_LAN

3.10 CN11:UART



Pin	Signal Description	Pin	Signal Description
1	GND	2	CTSA
3	UART_VCC	4	TXA
5	RXA	6	RTSA
7	GND	8	GND

3.11 CN12:SPI



Pin	Signal Description	Pin	Signal Description
1	+V3.3S	2	+V5S
3	GND	4	CS0
5	MISO	6	MOSI
7	CLK	8	INT_GPIO
9	CS1	10	GND
11	GND		