



Auvidea - Pinout

X242 rev3 - 38718-3(STD)

Generated with AltiNet Version: 1.1.12

Generator Config

Pinmux: AGX_thor_devkit

Config:

1. includeJacks: true
2. includeTestPoint: false
3. includeMechanical: false
4. includeSoM: false
5. includeComplexParts: undefined

Date of generation: 2/19/2026

Info

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U3

RTL8127-CG | Realtek 10GbE PCIe Ethernet

Refer to the [Product page or datasheet](#) ↗ for official specifications.

PCIe -> 10 Gigabit Ethernet Controller



Pin	Board Signal	Socket Pin	Signal Name	Description
46	PCIE1_RST_N	J3-B36	PEX_C1_RST_N	
68	PEX-TX_P	J3-B33	UPHY_RX3_P	
69	PEX-TX_N	J3-B32	UPHY_RX3_N	
71	PEX1-R1_P	J3-G35	UPHY_TX3_P	
72	PEX1-R1_N	J3-G34	UPHY_TX3_N	
74	UPHY0_SF_PCIE1_CLK_P	J3-D49	UPHY_REFCLK6_P	
75	UPHY0_SF_PCIE1_CLK_N	J3-D48	UPHY_REFCLK6_N	
88	M2E_WIFI_WAKE	J3-B8	GPIO11	

U9

ATSHA204A-SSHDA-B |

Refer to the [Product page or datasheet](#) ↗ for official specifications.

I2C Turnkey Crypto Chip on I2C 7-Bit device address `0x64`

Pin	Board Signal	Socket Pin	Signal Name	Description
5	I2C_GP2_DAT_LVS	-		
6	I2C_GP2_CLK_LVS	-		

U10

TCA6408ARSVR | I2C I/O Port EXPANDER I2C 8 bit

Refer to the [Product page or datasheet](#) ↗ for official specifications.

I2C 8-Port GPIO port expander. Device on I2C 7-Bit address `0x21` .



Pin	Board Signal	Socket Pin	Signal Name	Description
12	I2C_GP2_CLK_LVS	-		
13	I2C_GP2_DAT_LVS	-		

U12

TJA1051TK/3,118 | CAN bus driver

Refer to the [Product page or datasheet](#) ↗ for official specifications.

High-speed CAN transceiver. CAN RX/TX to CAN H/L.

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CAN1-TX	J3-H61	CAN3_DOUT	
4	CAN1-RX	J3-B61	CAN3_DIN	

U19

TJA1051TK/3,118 | CAN bus driver

Refer to the [Product page or datasheet](#) ↗ for official specifications.

High-speed CAN transceiver. CAN RX/TX to CAN H/L.

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CAN0-TX	-		
4	CAN0-RX	-		

U32

RTL8127-CG | Realtek 10GbE PCIe Ethernet

Refer to the [Product page or datasheet](#) ↗ for official specifications.

PCIe -> 10 Gigabit Ethernet Controller



Pin	Board Signal	Socket Pin	Signal Name	Description
46	PCIE2_RST_N	J3-D10	PEX_C2_RST_N	
68	2_PEX-TX_P	J3-B21	UPHY_RX4_P	
69	2_PEX-TX_N	J3-B20	UPHY_RX4_N	
71	2_PEX1-R1_P	J3-K21	UPHY_TX4_P	
72	2_PEX1-R1_N	J3-K20	UPHY_TX4_N	
74	PCIE2_CLK_P	J3-E15	UPHY_REFCLK5_P	
75	PCIE2_CLK_N	J3-E14	UPHY_REFCLK5_N	
88	RTL_WOL_N	-		

U77

PCF85063ATL/1,118 | I2C RTC 0.2uA 0.9-5.5V, 0.22uA

Refer to the [Product page or datasheet](#) ↗ for official specifications.

I2C Real time clock (RTC) on I2C 7-Bit device address `0x51`

Pin	Board Signal	Socket Pin	Signal Name	Description
6	I2C_GP2_DAT_LVS	-		
7	I2C_GP2_CLK_LVS	-		

J1

Molex-430450823 | Molex Microfit 3mm 2x4 pins horizontal

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V+	-		
2	V+	-		
3	V+	-		
4	V+	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
5	V-	-		
6	V-	-		
7	V-	-		
8	V-	-		
S1	V-	-		
S2	V-	-		

J2

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_5V	-		
2	USB2-2_N	J3-A11	USB2_N	
3	USB2-2_P	J3-A10	USB2_P	
4	GND	-		

J4

RJE3A18864A1 | 10G RJ45 better shield, larger than 22165

Pin	Board Signal	Socket Pin	Signal Name	Description
1	MX1_P	-		
2	MX1_N	-		
3	MX2_P	-		
4	MX3_P	-		
5	MX3_N	-		
6	MX2_N	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
7	MX4_P	-		
8	MX4_N	-		
9	-	-		
10	VDD_3V3	-		
11	-	-		
12	VDD_3V3	-		
S1	GND_S	-		

J6

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V_CAN1	-		
2	CAN1_H	-		
3	CAN1_L	-		
4	GND	-		

J7

PB-SR04 | PicoBlade 4p horz

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	I2C_GP2_CLK_LVS	-		
3	I2C_GP2_DAT_LVS	-		
4	GND	-		

J8

PB-SR04 | PicoBlade 4p horz

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	VDD_12V0	-		
3	FAN_TACH_CON	J3-E54	FAN_TACH	
4	FAN_PWM_Q*	-		

J9

MDT420M01501 | M.2 Key M Gen 5 4.2 / 2.5

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	VDD_3V3	-		
3	GND	-		
4	VDD_3V3	-		
9	GND	-		
10	DAS	-		
12	VDD_3V3	-		
14	VDD_3V3	-		
15	GND	-		
16	VDD_3V3	-		
18	VDD_3V3	-		
21	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
27	GND	-		
29	UPHY0_RX6_N	J3-B13	UPHY_RX6_N	
31	UPHY0_RX6_P	J3-B12	UPHY_RX6_P	
33	GND	-		
35	NVHS_PEX0_TX1_N	J3-K12	UPHY_TX6_N	
37	NVHS_PEX0_TX1_P	J3-K13	UPHY_TX6_P	
38	-	-		
39	GND	-		
40	I2C_GP2_CLK	J3-J61	I2C2_CLK	
41	UPHY0_RX7_N	J3-D13	UPHY_RX7_N	
42	I2C_GP2_DAT	J3-K61	I2C2_DAT	
43	UPHY0_RX7_P	J3-D12	UPHY_RX7_P	
44	M2M_ALERT_N	J3-A55	I2C9_CLK	
45	GND	-		
47	NVHS_PEX0_TX0_N	J3-H13	UPHY_TX7_N	
49	NVHS_PEX0_TX0_P	J3-H12	UPHY_TX7_P	
50	PCIE3_RST_N	J3-J9	PEX_C3_RST_N	
51	GND	-		
52	PCIE3_CLKREQ_N	J3-G8	PEX_C3_CLKREQ_N	
53	PCIE3_CLK_N	J3-E22	UPHY_REFCLK4_N	
54	M2M_WAKE_N	J3-J5	GPIO63	
55	PCIE3_CLK_P	J3-E23	UPHY_REFCLK4_P	
57	GND	-		
69	-	-		
70	VDD_3V3	-		
71	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
72	VDD_3V3	-		
73	GND	-		
74	VDD_3V3	-		
75	GND	-		
P1	VDD_3V3	-		
P2	VDD_3V3	-		

J10

BM06B-GHS-TB | A1256-SV06

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_3V3	-		
2	UART3_TXD_3.3	-		
3	UART3_RXD_3.3	-		
4	GPIO3_PP.04_OUT_3V3	-		
5	GPIO3_PP.03_IN_3V3	-		
6	GND	-		

J11

FCI-10146070-113Y0LF | PCIe 16lane 164pos gen 5

Pin	Board Signal	Socket Pin	Signal Name	Description
16 5	GND	-		
16 6	GND	-		
A2	VDD_12V0	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
A3	VDD_12V0	-		
B1	VDD_12V0	-		
B2	VDD_12V0	-		
B3	VDD_12V0	-		
B1 0	VDD_3V3	-		
A4 7	UPHY1_RX7 _P	J3-A30	UPHY_RX15 _P	
A4 8	UPHY1_RX7 _N	J3-A31	UPHY_RX15 _N	
A4 4	UPHY1_RX6 _P	J3-C31	UPHY_RX14 _P	
A4 3	UPHY1_RX6 _N	J3-C30	UPHY_RX14 _N	
A4 0	UPHY1_RX5 _P	J3-B29	UPHY_RX13 _P	
A3 9	UPHY1_RX5 _N	J3-B28	UPHY_RX13 _N	
A3 5	UPHY1_RX4 _P	J3-D28	UPHY_RX12 _P	
A3 6	UPHY1_RX4 _N	J3-D29	UPHY_RX12 _N	
A2 9	UPHY1_RX3 _P	J3-A26	UPHY_RX11 _P	
A3 0	UPHY1_RX3 _N	J3-A27	UPHY_RX11 _N	
A2 6	UPHY1_RX2 _P	J3-C27	UPHY_RX10 _P	
A2 5	UPHY1_RX2 _N	J3-C26	UPHY_RX10 _N	
A2 2	UPHY1_RX1 _P	J3-B25	UPHY_RX9_ P	



Pin	Board Signal	Socket Pin	Signal Name	Description
A2 1	UPHY1_RX1_N	J3-B24	UPHY_RX9_N	
A1 6	UPHY1_RX0_P	J3-D24	UPHY_RX8_P	
A1 7	UPHY1_RX0_N	J3-D25	UPHY_RX8_N	
A1 3	UPHY1_REF_CLK_P	-		
A1 4	UPHY1_REF_CLK_N	-		
B1 1	PEX_WAKE_N_R	J3-A8	PEX_WAKE_N	
A5 0	PEX_STRAP_0	-		
A8	PEX_JTAG_TMS	-		
A7	PEX_JTAG_TDO	-		
A6	PEX_JTAG_TDI	-		
A5	PEX_JTAG_TCLK	-		
B1 7	PEX1_PRSN_T_L	-		
B3 1	PEX1_PRSN_T_L	-		
B4 8	PEX1_PRSN_T_L	-		
B8 1	PEX1_PRSN_T_L	-		
A1 1	PEX1_L5_RST_N_R	J3-L18	PEX_C5_RST_N	Muxed using J3-H17(XFI_DETECT_N) - (Root Signal)
B1 2	PEX1_L0_CQ_N_R	J3-L19	PEX_C5_CLK_REQ_N	Muxed using J3-H17(XFI_DETECT_N) - (Root Signal)



Pin	Board Signal	Socket Pin	Signal Name	Description
A9	PEX1_3V3	-		
A10	PEX1_3V3	-		
B8	PEX1_3V3	-		
B9	PEX0_JTAG_TRST	-		
B45	NVHS1-TX7_P	J3-J30	UPHY_TX15_P	
B46	NVHS1-TX7_N	J3-J31	UPHY_TX15_N	
B41	NVHS1-TX6_P	J3-G30	UPHY_TX14_N	
B42	NVHS1-TX6_N	J3-G31	UPHY_TX14_P	
B37	NVHS1-TX5_P	J3-K28	UPHY_TX13_N	
B38	NVHS1-TX5_N	J3-K29	UPHY_TX13_P	
B33	NVHS1-TX4_P	J3-H28	UPHY_TX12_P	
B34	NVHS1-TX4_N	J3-H29	UPHY_TX12_N	
B27	NVHS1-TX3_P	J3-J26	UPHY_TX11_P	
B28	NVHS1-TX3_N	J3-J27	UPHY_TX11_N	
B23	NVHS1-TX2_P	J3-G26	UPHY_TX10_N	
B24	NVHS1-TX2_N	J3-G27	UPHY_TX10_P	
B19	NVHS1-TX1_P	J3-K24	UPHY_TX9_N	
B20	NVHS1-TX1_N	J3-K25	UPHY_TX9_P	



Pin	Board Signal	Socket Pin	Signal Name	Description
B1 4	NVHS1-TX0_P	J3-H24	UPHY_TX8_P	
B1 5	NVHS1-TX0_N	J3-H25	UPHY_TX8_N	
B6 3	XFI3_RST_N	J3-G18	GPIO57	Level-Shifted
B6 2	XFI3_INT_N	J3-G19	GPIO58	Level-Shifted
B5 9	XFI0_RST_N	J3-J52	I2C0_CLK	Level-Shifted
B5 8	XFI0_INT_N	J3-J53	I2C0_DAT	Level-Shifted
A6 5	XFI3_MDIO	J3-K51	GPIO69/XFI3_MDIO	Level-Shifted
A6 4	XFI3_MDC	J3-K52	GPIO70/XFI3_MDC	Level-Shifted
A6 1	GPIO25_XFI0_MDIO	J3-K49	GPIO25/XFI0_MDIO	Level-Shifted
A6 0	GPIO26_XFI0_MDC	J3-H51	GPIO26/XFI0_MDC	Level-Shifted
A1	GND	-		
A4	GND	-		
A1 2	GND	-		
A1 5	GND	-		
A1 8	GND	-		
A2 0	GND	-		
A2 3	GND	-		
A2 4	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
A2 7	GND	-		
A2 8	GND	-		
A3 1	GND	-		
A3 4	GND	-		
A3 7	GND	-		
A3 8	GND	-		
A4 1	GND	-		
A4 2	GND	-		
A4 5	GND	-		
A4 6	GND	-		
A4 9	GND	-		
A5 1	GND	-		
A5 4	GND	-		
A5 5	GND	-		
A5 8	GND	-		
A5 9	GND	-		
A6 2	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
A6 3	GND	-		
A6 6	GND	-		
A6 7	GND	-		
A7 0	GND	-		
A7 1	GND	-		
A7 4	GND	-		
A7 5	GND	-		
A7 8	GND	-		
A7 9	GND	-		
A8 2	GND	-		
B4	GND	-		
B7	GND	-		
B1 3	GND	-		
B1 6	GND	-		
B1 8	GND	-		
B2 1	GND	-		
B2 2	GND	-		
B2 5	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
B2 6	GND	-		
B2 9	GND	-		
B3 2	GND	-		
B3 5	GND	-		
B3 6	GND	-		
B3 9	GND	-		
B4 0	GND	-		
B4 3	GND	-		
B4 4	GND	-		
B4 7	GND	-		
B4 9	GND	-		
B5 2	GND	-		
B5 3	GND	-		
B5 6	GND	-		
B5 7	GND	-		
B6 0	GND	-		
B6 1	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
B6 4	GND	-		
B6 5	GND	-		
B6 8	GND	-		
B6 9	GND	-		
B7 2	GND	-		
B7 3	GND	-		
B7 6	GND	-		
B7 7	GND	-		
B8 0	GND	-		

J12

BM06B-GHS-TB | A1256-SV06

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V_CAN0	-		
2	CAN0_H	-		
3	CAN0_L	-		
4	CAN0-TX	-		
5	CAN0-RX	-		
6	GND	-		

J13

QSH-060-01-L-D-A-K-TR | Samtec 120p TX1 dev kit connector 10u (carrier)

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CSI_0_D0_P	J3-E42	CSI0_D0_P	
2	CSI_1_D0_P	J3-G41	CSI1_D0_P	
3	CSI_0_D0_N	J3-E41	CSI0_D0_N	
4	CSI_1_D0_N	J3-G42	CSI1_D0_N	
5	GND	-		
6	GND	-		
7	CSI_0_CLK_P	J3-F43	CSI0_CLK_P	
8	CSI_1_CLK_P	J3-H43	CSI1_CLK_P	
9	CSI_0_CLK_N	J3-F42	CSI0_CLK_N	
10	CSI_1_CLK_N	J3-H42	CSI1_CLK_N	
11	GND	-		
12	GND	-		
13	CSI_0_D1_P	J3-E39	CSI0_D1_P	
14	CSI_1_D1_P	J3-J41	CSI1_D1_P	
15	CSI_0_D1_N	J3-E38	CSI0_D1_N	
16	CSI_1_D1_N	J3-J42	CSI1_D1_N	
17	GND	-		
18	GND	-		
19	CSI_2_D0_P	J3-A41	CSI2_D0_P	
20	CSI_3_D0_P	J3-E45	CSI3_D0_P	
21	CSI_2_D0_N	J3-A42	CSI2_D0_N	



Pin	Board Signal	Socket Pin	Signal Name	Description
22	CSI_3_D0_N	J3-E44	CSI3_D0_N	
23	GND	-		
24	GND	-		
25	CSI_2_CLK_P	J3-B43	CSI2_CLK_P	
26	CSI_3_CLK_P	J3-F46	CSI3_CLK_P	
27	CSI_2_CLK_N	J3-B42	CSI2_CLK_N	
28	CSI_3_CLK_N	J3-F45	CSI3_CLK_N	
29	GND	-		
30	GND	-		
31	CSI_2_D1_P	J3-C42	CSI2_D1_P	
32	CSI_3_D1_P	J3-G44	CSI3_D1_P	
33	CSI_2_D1_N	J3-C41	CSI2_D1_N	
34	CSI_3_D1_N	J3-G45	CSI3_D1_N	
35	GND	-		
36	GND	-		
37	CSI_4_D0_P	J3-G48	CSI4_D0_P	
38	CSI_6_D0_P	J3-K44	CSI6_D0_P	
39	CSI_4_D0_N	J3-G47	CSI4_D0_N	
40	CSI_6_D0_N	J3-K43	CSI6_D0_N	
41	GND	-		
42	GND	-		
43	CSI_4_CLK_P	J3-F48	CSI4_CLK_P	
44	CSI_6_CLK_P	J3-J44	CSI6_CLK_P	
45	CSI_4_CLK_N	J3-F49	CSI4_CLK_N	
46	CSI_6_CLK_N	J3-J45	CSI6_CLK_N	
47	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
48	GND	-		
49	CSI_4_D1_P	J3-E47	CSI4_D1_P	
50	CSI_6_D1_P	J3-H46	CSI6_D1_P	
51	CSI_4_D1_N	J3-E48	CSI4_D1_N	
52	CSI_6_D1_N	J3-H45	CSI6_D1_N	
53	GND	-		
54	GND	-		
55	DVDD_CAM_LV	-		
56	DVDD_CAM_LV	-		
57	DVDD_CAM_LV	-		
58	DVDD_CAM_LV	-		
59	CSI_5_D0_P	J3-D42	CSI5_D0_P	
60	CSI_7_D0_P	J3-A44	CSI7_D0_P	
61	CSI_5_D0_N	J3-D43	CSI5_D0_N	
62	CSI_7_D0_N	J3-A45	CSI7_D0_N	
63	GND	-		
64	GND	-		
65	CSI_5_CLK_P	J3-C44	CSI5_CLK_P	
66	CSI_7_CLK_P	J3-B45	CSI7_CLK_P	
67	CSI_5_CLK_N	J3-C45	CSI5_CLK_N	
68	CSI_7_CLK_N	J3-B46	CSI7_CLK_N	
69	GND	-		
70	GND	-		
71	CSI_5_D1_P	J3-D46	CSI5_D1_P	
72	CSI_7_D1_P	J3-C47	CSI7_D1_P	
73	CSI_5_D1_N	J3-D45	CSI5_D1_N	



Pin	Board Signal	Socket Pin	Signal Name	Description
74	CSI_7_D1_N	J3-C48	CSI7_D1_N	
75	I2C_GP3_CLK	J3-F53	I2C3_CLK	
76	CAM_ERROR1	J3-L15	GPIO14	
77	I2C_GP3_DAT	J3-E53	I2C3_DAT	
78	CAM_ERROR2	J3-L9	I2S7_DOUT	
79	GND	-		
80	GND	-		
81	AVDD_CAM_2V8	-		
82	AVDD_CAM_2V8	-		
83	AVDD_CAM_2V8	-		
84	CAM_ERROR3	J3-A7	GPIO29	
85	-	J3-A62	GPIO17	
86	-	J3-F61	VCOMP_ALERT_N	
87	I2C_GP2_CLK	J3-J61	I2C2_CLK	
88	MCLK03_CAM1_MCLK	J3-H53	MCLK03	
89	I2C_GP2_DAT	J3-K61	I2C2_DAT	
90	CAM1_PWDN	J3-F10	GPIO15	
91	MCLK02_CAM0_MCLK	J3-J54	MCLK02	
92	CAM1_RST	J3-F9	GPIO16	
93	CAM0_PWDN	J3-C4	GPIO47	
94	MCLK04_CAM2_MCLK	J3-H55	MCLK04	
95	CAM0_RST	J3-L5	UART4_TX	
96	CAM_FRSYNC4	J3-A48	I2C10_DAT	
97	-	J3-E59	GPIO38	
98	-	J3-F59	GPIO42	
99	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
100	GND	-		
101	CAM_TE_RSV	J3-J51	GPIO24/XFI2_MDIO	
102	VDD_1V8	-		
103	-	J3-F60	SPI2_MOSI	
104	-	J3-D60	SPI2_CS0_N	
105	I2C_GP9_CLK	J3-A53	I2C5_CLK	
106	-	J3-D62	SPI2_MISO	
107	I2C_GP9_DAT	J3-C53	I2C5_DAT	
108	VDD_3V3	-		
110	VDD_3V3	-		
111	-	J3-F55	SPI3_CLK	
112	-	J3-G56	SPI3_MOSI	
113	-	J3-C57	SPI3_CS0_N	
114	-	J3-D56	SPI3_MISO	
115	GND	-		
116	-	-		
117	-	J3-E61	SPI2_CLK	
118	VDD_3V3	-		
119	CAM_VDD_SYS_EN	J3-E10	GPIO12	
120	VDD_3V3	-		
121	GND	-		
122	GND	-		
123	GND	-		
124	GND	-		
125	GND	-		
126	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
127	GND	-		
128	GND	-		

J14

SM3ZS067U310ABR1200 | 67p M.2 key B 3.1mm/1.5mm

Pin	Board Signal	Socket Pin	Signal Name	Description
2	VDD_3V3	-		
3	GND	-		
4	VDD_3V3	-		
5	GND	-		
6	POWER_ON	-		
7	USB2H_D5_P	J3-G11	USB3_P	USB Hub (Port-5)
8	W_DISABLE#	-		
9	USB2H_D5_N	J3-G10	USB3_N	USB Hub (Port-5)
10	WIFI_LED#	-		
11	GND	-		
21	GND	-		
23	Wake_On_WWAN	-		
27	GND	-		
29	USB3H_RX5_N	J3-G22	UPHY_TX2_N	USB Hub (Port-5)
30	UIM_RESET_1	-		
31	USB3H_RX5_P	J3-G23	UPHY_TX2_P	USB Hub (Port-5)
32	UIM_CLK_1	-		
33	GND	-		
34	UIM_DATA_1	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
35	USB3H-TX5_N	J3-C22	UPHY_RX2_N	USB Hub (Port-5)
36	UIM_PWR_1	-		
37	USB3H-TX5_P	J3-C23	UPHY_RX2_P	USB Hub (Port-5)
39	GND	-		
45	GND	-		
51	GND	-		
57	GND	-		
66	-	-		
67	RESET#	-		
69	GND	-		
70	VDD_3V3	-		
71	GND	-		
72	VDD_3V3	-		
73	GND	-		
74	VDD_3V3	-		
P1	VDD_3V3	-		
P2	VDD_3V3	-		
P3	GND	-		

J15

CH03-KB060-HAR | nano SIM card reader

Pin	Board Signal	Socket Pin	Signal Name	Description
C2	UIM_RESET_1	-		
C1	UIM_PWR_1	-		
C7	UIM_DATA_1	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
C3	UIM_CLK_1	-		
C5	GND	-		

J16

FCI-59453-121110EDHLF | 12 pin FPC 0.5mm USB3

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V_USB_J16	-		
2	V_USB_J16	-		
3	USB2H_D4_N	J3-G10	USB3_N	USB Hub (Port-4)
4	USB2H_D4_P	J3-G11	USB3_P	USB Hub (Port-4)
5	PWR_EN_USB	-		
6	GND	-		
7	USB3H_RX4_N	J3-G22	UPHY_TX2_N	USB Hub (Port-4)
8	USB3H_RX4_P	J3-G23	UPHY_TX2_P	USB Hub (Port-4)
9	GND	-		
10	USB3H-TX4_N	J3-C22	UPHY_RX2_N	USB Hub (Port-4)
11	USB3H-TX4_P	J3-C23	UPHY_RX2_P	USB Hub (Port-4)
12	GND	-		

J18

Nexus-3626R2F0R | Vertical HDMI 15u

Pin	Board Signal	Socket Pin	Signal Name	Description
1	HDMI_DP1-TX0_P	-		
2	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
3	HDMI_DP1-TX0_N	-		
4	HDMI_DP1-TX1_P	-		
5	GND	-		
6	HDMI_DP1-TX1_N	-		
7	HDMI_DP1-TX2_P	-		
8	GND	-		
9	HDMI_DP1-TX2_N	-		
10	HDMI_DP1-TX3_P	-		
11	GND	-		
12	HDMI_DP1-TX3_N	-		
15	-	-		
16	-	-		
17	GND	-		
18	VDD_5V0_HDMI_CON	-		
19	-	-		
20	GND_S	-		
21	GND_S	-		
22	GND_S	-		
23	GND_S	-		

J19

MOLEX_43045-0415 | microfit 4pin vertical SMD

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	VDD_12V0	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
3	VDD_5V	-		
4	VDD_3V3	-		

J20

PB-SV06 | PicoBlade 6p vert A1251-SV06

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND_S	-		
2	M1	-		
3	M2	-		
4	M3	-		
5	M4	-		
6	GND_S	-		

J21

NTC325-AA1J-A160T | SMD Taster

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	SYS_RST_N	J3-L60	SYS_RESET_N	
3	GND	-		
4	GND	-		
5	GND	-		
6	GND	-		
7	GND	-		

J22

RJE3A18864A1 | 10G RJ45 better shield, larger than 22165

Pin	Board Signal	Socket Pin	Signal Name	Description
1	2_MX1_P	-		
2	2_MX1_N	-		
3	2_MX2_P	-		
4	2_MX3_P	-		
5	2_MX3_N	-		
6	2_MX2_N	-		
7	2_MX4_P	-		
8	2_MX4_N	-		
9	-	-		
10	VDD_3V3	-		
11	-	-		
12	VDD_3V3	-		
S1	GND_S	-		

J23

BM06B-GHS-TB | A1256-SV06

Pin	Board Signal	Socket Pin	Signal Name	Description
1	3V3_AO	-		
2	MCU_TX	-		
3	MCU_RX	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
4	SWCLK	-		
5	SWDIO	-		
6	GND	-		

J24

PB-SV06 | PicoBlade 6p vert A1251-SV06

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND_S	-		
2	2_M1	-		
3	2_M2	-		
4	2_M3	-		
5	2_M4	-		
6	GND_S	-		

J25

NTC325-AA1J-A160T | SMD Taster

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	FORCE_RECOVERY_R*	J3-L10	FORCE_RECOVERY_N	
3	GND	-		
4	GND	-		
5	GND	-		
6	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
7	GND	-		

J26

NTC325-AA1J-A160T | SMD Taster

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CVM_PRSNT	J3-L63		
2	PMU_ONKEY_N	-		
3	CVM_PRSNT	J3-L63		
4	CVM_PRSNT	J3-L63		
5	CVM_PRSNT	J3-L63		
6	CVM_PRSNT	J3-L63		
7	CVM_PRSNT	J3-L63		

J27

Nexus-1520S40B | Header 2x20 straight 2.54mm

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_3V3	-		
2	VDD_5V	-		
3	I2C_GP8_D AT_LVS	-		
4	VDD_5V	-		
5	I2C_GP8_C LK_LVS	-		
6	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
7	MCLK05_LVS	J3-L57	MCLK05	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
8	UART1_TX_LVS	-		
9	GND	-		
10	UART1_RX_LVS	-		
11	UART1_RTS_LVS	-		
12	I2S2_SCLK_LVS	J3-G4	I2S2_CLK/BO OT_CHAIN_1	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
13	PWM1_40PIN_LVS	J3-K57	PWM01	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
14	GND	-		
15	PWM2_40PIN_LVS	J3-H52	GPIO27	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
16	DMIC5_DATA_40PIN	J3-B62	GPIO08	
17	VDD_3V3	-		
18	PWM3_40PIN_LVS	J3-E5	GPIO44	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
19	SPI_MOSI_LVS	J3-D55	SPI1_MOSI	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
20	GND	-		
21	SPI_MISO_LVS	J3-A56	SPI1_MISO	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
22	GPIO_40PIN_LVS	J3-L48	I2S7_DIN	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)



Pin	Board Signal	Socket Pin	Signal Name	Description
23	SPI_SCK_L VS	J3-J57	SPI1_CLK	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
24	GND	-		
25	GND	-		
26	SPI_CS1_L VS	J3-B56	SPI1_CS1_N	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
27	I2C_GP2_D AT_LVS	-		
28	I2C_GP2_C LK_LVS	-		
29	CAN2_DIN	J3-F58	CAN2_DIN	
30	GND	-		
31	CAN2_DOU T	J3-D59	CAN2_DOUT	
32	DMIC5_CL K_40PIN	J3-C61	GPIO09	
33	CAN3_DOU T	J3-H61	CAN3_DOUT	
34	GND	-		
35	I2S2_FS_L VS	J3-E4	I2S2_FS	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
36	UART1_CT S_LVS	-		
37	CAN3_DIN	J3-B61	CAN3_DIN	
38	I2S2_DIN_L VS	J3-F6	I2S2_DIN	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)
39	GND	-		
40	I2S2_DOUT _LVS	J3-F5	I2S2_DOUT	Level-Shifted VDD_1V8 <-> VDD_3V3 (Signal is VDD_3V3 side)



J28

Molex-0484040003 |

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	USB2-D1_N	J3-G10	USB3_N	USB Hub (Port-3)
3	USB2-D1_P	J3-G11	USB3_P	USB Hub (Port-3)
4	GND	-		
5	USB3H_RX3_N	J3-G22	UPHY_TX2_N	USB Hub (Port-3)
6	USB3H_RX3_P	J3-G23	UPHY_TX2_P	USB Hub (Port-3)
7	GND	-		
8	USB3H-TX3_N	J3-C22	UPHY_RX2_N	USB Hub (Port-3)
9	USB3H-TX3_P	J3-C23	UPHY_RX2_P	USB Hub (Port-3)
10	GND_S	-		

J30

SM10B-GHS-TB | JST GH 10 polig (A1256-SR10)

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_5V	-		
2	VDD_3V3	-		
3	-	-		
4	-	-		
5	-	-		
6	-	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
7	-	-		
8	-	-		
9	GND	-		
10	GND	-		

J31

BM08B-GHS-TB | JST GH 8p vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	Vin	-		
2	Vin	-		
3	VCC_SRC_FET	-		
4	VCC_SRC_FET	-		
5	VCC_SRC_FET	-		
6	GND	-		
7	GND	-		
8	GND	-		

J35

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_5V	-		
2	VDD_5V	-		
3	GND	-		
4	GND	-		



J37

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	SYS_RST_N	J3-L60	SYS_RESET_N	
2	BUTTON_POWER_ON*	-		
3	FORCE_RECOVERY_N	J3-L10	FORCE_RECOVERY_N	
4	GND	-		

J39

BM02B-SRSS-TB(LF)(SN) | 2 pin RTC connector (Pi compatible)

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	-	-		

J40

DX07S024XJ1R1100 | JAE USB-C Buchse (THD/SMT)

Pin	Board Signal	Socket Pin	Signal Name	Description
25	GND_S	-		
26	GND_S	-		
27	GND_S	-		
28	GND_S	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
29	GND_S	-		
30	GND_S	-		
A1	GND	-		
A1 2	GND	-		
B1	GND	-		
B1 2	GND	-		
A4	3_VBUS 2	-		
A9	3_VBUS 2	-		
B4	3_VBUS 2	-		
B9	3_VBUS 2	-		
B2	3_TX2_ P	J3-C23	UPHY_ RX2_P	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B3	3_TX2_ N	J3-C22	UPHY_ RX2_N	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
A2	3_TX1_ P	J3-C23	UPHY_ RX2_P	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
A3	3_TX1_ N	J3-C22	UPHY_ RX2_N	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B8	3_SBU2	-		
A8	3_SBU1	-		
A1 1	3_RX2_ P	J3-G23	UPHY_T X2_P	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)

Pin	Board Signal	Socket Pin	Signal Name	Description
A10	3_RX2_N	J3-G22	UPHY_TX2_N	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B11	3_RX1_P	J3-G23	UPHY_TX2_P	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B10	3_RX1_N	J3-G22	UPHY_TX2_N	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
A6	3_D-IN_P	J3-G11	USB3_P	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B6	3_D-IN_P	J3-G11	USB3_P	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
A7	3_D-IN_N	J3-G10	USB3_N	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B7	3_D-IN_N	J3-G10	USB3_N	USB-C Displayport (J3-C51, J3-C50, J3-A51, J3-A50, J3-B51, J3-B52, J3-D51, J3-D52, J3-G53, J3-A51), USB Hub (Port-1)
B5	3_CC2	-		
A5	3_CC1	-		

J41

DX07S024XJ1R1100 | JAE USB-C Buchse (THD/SMT)

Pin	Board Signal	Socket Pin	Signal Name	Description
25	GND_S	-		
26	GND_S	-		
27	GND_S	-		
28	GND_S	-		
29	GND_S	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
30	GND_S	-		
A1	GND	-		
A1 2	GND	-		
B1	GND	-		
B1 2	GND	-		
A4	2_VBUS 2	-		
A9	2_VBUS 2	-		
B4	2_VBUS 2	-		
B9	2_VBUS 2	-		
B2	2_TX2_ P	J3-K32	UPHY_T X0_P	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
B3	2_TX2_ N	J3-K33	UPHY_T X0_N	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
A2	2_TX1_ P	J3-K32	UPHY_T X0_P	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
A3	2_TX1_ N	J3-K33	UPHY_T X0_N	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
B8	2_SBU2	-		
A8	2_SBU1	-		
A1 1	2_RX2_ P	J3-C34	UPHY_R X0_P	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
A1 0	2_RX2_ N	J3-C35	UPHY_R X0_N	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)

Pin	Board Signal	Socket Pin	Signal Name	Description
B1 1	2_RX1_P	J3-C34	UPHY_RX0_P	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
B1 0	2_RX1_N	J3-C35	UPHY_RX0_N	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
A6	2_D-IN_P	J3-C11	USB1_P	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
B6	2_D-IN_P	J3-C11	USB1_P	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
A7	2_D-IN_N	J3-C10	USB1_N	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
B7	2_D-IN_N	J3-C10	USB1_N	USB-C Displayport (J3-G15, J3-G14, J3-C15, J3-C14, J3-J14, J3-J15, J3-A15, J3-A14, J3-E19, J3-C15)
B5	2_CC2	-		
A5	2_CC1	-		

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Pin	Board Signal	Socket Pin	Signal Name	Description
25	GND_S	-		
26	GND_S	-		
27	GND_S	-		
28	GND_S	-		
29	GND_S	-		
30	GND_S	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
A4	V5.0_C1	-		
A9	V5.0_C1	-		
B4	V5.0_C1	-		
B9	V5.0_C1	-		
A6	USB1-D_P	J3-G11	USB3_P	USB Hub (Port-2)
B6	USB1-D_P	J3-G11	USB3_P	USB Hub (Port-2)
A7	USB1-D_N	J3-G10	USB3_N	USB Hub (Port-2)
B7	USB1-D_N	J3-G10	USB3_N	USB Hub (Port-2)
A1 1	SS1RX2_P	J3-G22	UPHY_TX2_ N	USB-C Power-Switch, USB Hub (Port-2)
A1 0	SS1RX2_N	J3-G23	UPHY_TX2_ P	USB-C Power-Switch, USB Hub (Port-2)
B1 1	SS1RX1_P	J3-G22	UPHY_TX2_ N	USB-C Power-Switch, USB Hub (Port-2)
B1 0	SS1RX1_N	J3-G23	UPHY_TX2_ P	USB-C Power-Switch, USB Hub (Port-2)
B2	SS1_TX2_ P	J3-C23	UPHY_RX2_ _P	USB-C Power-Switch, USB Hub (Port-2)
B3	SS1_TX2_ N	J3-C22	UPHY_RX2_ _N	USB-C Power-Switch, USB Hub (Port-2)
A2	SS1_TX1_ P	J3-C23	UPHY_RX2_ _P	USB-C Power-Switch, USB Hub (Port-2)
A3	SS1_TX1_ N	J3-C22	UPHY_RX2_ _N	USB-C Power-Switch, USB Hub (Port-2)
A1	GND	-		
A1 2	GND	-		
B1	GND	-		
B1 2	GND	-		
B5	CC-2_1	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
A5	CC-1_1	-		

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Pin	Board Signal	Socket Pin	Signal Name	Description
25	GND_S	-		
26	GND_S	-		
27	GND_S	-		
28	GND_S	-		
29	GND_S	-		
30	GND_S	-		
A4	VBUS	-		
A9	VBUS	-		
B4	VBUS	-		
B9	VBUS	-		
B2	TX2_P	J3-J22	UPHY_T X1_P	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
B3	TX2_N	J3-J23	UPHY_T X1_N	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
A2	TX1_P	J3-J22	UPHY_T X1_P	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
A3	TX1_N	J3-J23	UPHY_T X1_N	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
B8	SBU2	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
A8	SBU1	-		
A1 1	RX2_P	J3-A22	UPHY_R X1_P	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
A1 0	RX2_N	J3-A23	UPHY_R X1_N	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
B1 1	RX1_P	J3-A22	UPHY_R X1_P	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
B1 0	RX1_N	J3-A23	UPHY_R X1_N	USB-C Displayport (J3-H32, J3-H33, J3-A34, J3-A35, J3-J35, J3-J34, J3-D33, J3-D32, J3-F20, J3-A34)
A1	GND	-		
A1 2	GND	-		
B1	GND	-		
B1 2	GND	-		
A6	D-IN_P	J3-F12	USB0_P	
B6	D-IN_P	J3-F12	USB0_P	
A7	D-IN_N	J3-F13	USB0_N	
B7	D-IN_N	J3-F13	USB0_N	
B5	CC2	-		
A5	CC1	-		

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