



Auvidea - Pinout

JNX120X rev2 - 38751-2(std)

Generated with AltiNet Version: 1.1.12

Generator Config

Pinmux: Orin_nano_nx_hdmi, Pixhawk_p100, Pixhawk_p50

Config:

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

Date of generation: 5/3/2026

Info

This document was generated automatically. Fields marked "-" indicate missing or unavailable data.

Table of content

- [Generator Config](#)
- [Table of content](#)
- [U10](#)
 - [ATSHA204A-MAHDA-T | IC CRYPTO 4.5KB I2C](#)
- [U16](#)
 - [TJA1051TK/3,118 | CAN bus driver](#)



- U19
 - TJA1051TK/3,118 | CAN bus driver
- U20
 - TJA1051TK/3,118 | CAN bus driver
- U23
 - TJA1051TK/3,118 | CAN bus driver
- J1
 - DF40HC(3.0)-100DS-0.4V(51) | 100 pin header 3mm
- J3
 - 20455-020E-76 | MicroCoax IPEX 20p
- J4
 - BM04B-GHS-TB | JST GH 4pin vertical
- J5
 - Lotes-APCI0453 | Lotes extra high M.2 Key M (Advertima)
- J6
 - BM04B-GHS-TB | JST GH 4pin vertical
- J8
 - BM04B-GHS-TB | JST GH 4pin vertical
- J9
 - BM10B-GHS-TB | A1256-SV10 JST-GH vertical
- J10
 - BM02B-SRSS-TB(LF)(SN) | 2 pin RTC connector (Pi compatible)
- J11
 - NANOT 240 AS | micro tactile switch (2.1x1.65mm)
- J12
 - SM3ZS067U410AER1000 | 67p M.2 key E 4.1/2.5mm
- J13
 - BM06B-SRSS-TB | JST 1mm 6 pol vertical
- J14
 - BM04B-GHS-TB | JST GH 4pin vertical
- J15
 - BM04B-GHS-TB | JST GH 4pin vertical
- J16
 - BM04B-GHS-TB | JST GH 4pin vertical
- J17
 - BM04B-GHS-TB | JST GH 4pin vertical
- J18
 - BM04B-GHS-TB | JST GH 4pin vertical
- J19
 - BM04B-GHS-TB | JST GH 4pin vertical
- J20
 - BM04B-GHS-TB | JST GH 4pin vertical
- J21



- [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J22](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J23](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J24](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J25](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J26](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J27](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J28](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J29](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J30](#)
 - [20455-020E-76 | MicroCoax IPEX 20p](#)
- [J31](#)
 - [CH03-KB060-HAR | nano SIM card reader](#)
- [J32](#)
 - [PB-SV04 | PicoBlade 4p vert A1251-SV04](#)
- [J33](#)
 - [BM10B-GHS-TB | A1256-SV10 JST-GH vertical](#)
- [J34](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J35](#)
 - [BM10B-GHS-TB | A1256-SV10 JST-GH vertical](#)
- [J36](#)
 - [BM10B-GHS-TB | A1256-SV10 JST-GH vertical](#)
- [J37](#)
 - [SM3ZS067U410ABR1000 | 67p M.2 key B 4.1/2.5mm](#)
- [J38](#)
 - [BM04B-GHS-TB | JST GH 4pin vertical](#)
- [J40](#)
 - [20455-020E-76 | MicroCoax IPEX 20p](#)
- [J41](#)
 - [20455-020E-76 | MicroCoax IPEX 20p](#)
- [J42](#)
 - [SM04B-SURS-TF | JST SUR SMD 4pos 0.8mm horiz. 1.78mm H](#)
- [J43](#)
 - [BM10B-GHS-TB | A1256-SV10 JST-GH vertical](#)



- J44
 - BM06B-GHS-TB | A1256-SV06
- P1
 - Wuerth-9774050243R | Spacer M2 5mm
- P2
 - Wuerth-9774025243R | M2x2.5 Spacer
- P8
 - WUERTH-9774027151R | Spacer M2.5x2.7
- P9
 - WUERTH-9774027151R | Spacer M2.5x2.7
- P12
 - WUERTH-9774025360R | Spacer M3x2.5mm

U10

ATSHA204A-MAHDA-T | IC CRYPTO 4.5KB I2C

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	GEN2_I2C_SDA	J2-191	I2C1_SDA	
6	GEN2_I2C_SCL	J2-189	I2C1_SCL	

U16

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. Chip is fixed in silent mode.

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CAN3_TX	J39-40		
4	CAN3_RX	J39-42		



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. Chip is fixed in silent mode.

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CAN2.TX	-		
4	CAN2.RX	-		

U20

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. Chip is fixed in silent mode.

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CAN1.TX	-		
4	CAN1.RX	-		

U23

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. Chip is fixed in silent mode.

Pin	Board Signal	Socket Pin	Signal Name	Description
1	CAN_TX	J2-145	CAN_TX	



Pin	Board Signal	Socket Pin	Signal Name	Description
4	CAN_RX	J2-143	CAN_RX	

J1

DF40HC(3.0)-100DS-0.4V(51) | 100 pin header 3mm

Pin	Board Signal	Socket Pin	Signal Name	Description
1	FMU-CH8-PROT	-		
2	GND	-		
3	FMU-CH7-PROT	-		
5	FMU-CH6-PROT	-		
6	GND	-		
7	FMU-CH5-PROT	-		
8	I2C3_SDA_BASE_MS561 1_BARBED_EXTERNAL1	-		
9	GND	-		
10	I2C3_SCL_BASE_MS561 1_BARBED_EXTERNAL1	-		
11	FMU-CH4-PROT	-		
12	I2C2_SDA_BASE_GPS2_ MAG_LED_PM2	-		
13	FMU-CH3-PROT	-		
14	I2C2_SCL_BASE_GPS2_ MAG_LED_PM2	-		
15	FMU-CH2-PROT	-		
17	FMU-CH1-PROT	-		
19	GND	-		
20	GND	-		
25	HW_VER_REV_DRIVE	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
26	GND	-		
27	HW_VER_SENSE	-		
31	GND	-		
32	GND	-		
35	VDD_5V_PERIPH_NEN	-		
37	VDD_5V_PERIPH_NOC	-		
38	GND	-		
39	FMU_PPM	-		
41	GND	-		
42	USART2_RX_TELEM3	-		
43	GND	-		
44	GND	-		
45	GND	-		
47	GND	-		
49	VDD_5V_IN_PROT	-		
50	GND	-		
51	VDD_5V_IN_PROT	-		
52	UART5_TX_TELEM2	-		
53	VDD_5V_IN_PROT	-		
54	UART5_RX_TELEM2	-		
55	VDD_5V_IN_PROT	-		
56	GND	-		
57	CAN2.TX	U19-1		
59	CAN2.RX	U19-4		
61	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
62	GND	-		
63	CAN1.TX	U20-1		
65	CAN1.RX	U20-4		
66	UART7_RX_TELEM1	-		
67	GND	-		
68	GND	-		
70	USART6_RX	-		
71	-	-		
73	GND	-		
74	GND	-		
76	USB_D_P	-		Muxed using Q22-D(SEL) - (Root Signal)
78	USB_D_N	-		Muxed using Q22-D(SEL) - (Root Signal)
79	GND	-		
80	VBUS_SENSE	-		
81	VDD_5V_HIPOWER_NEN	-		
82	GND	-		
83	VDD_5V_HIPOWER_NOC	-		
84	FMU_VDD_3V3	-		
85	NARMED	-		
86	FMU_VDD_3V3	-		
87	FMU_NRST	-		
88	GND	-		
89	NPOWER_IN_A	-		
90	ADC1_6V6	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
91	NPOWER_IN_B	-		
92	ADC1_3V3	-		
93	NPOWER_IN_C	-		
94	GND	-		
95	GND	-		
96	UART4_RX	-		
98	UART4_TX	-		
99	GND	-		
100	GND	-		

J3

20455-020E-76 | MicroCoax IPEX 20p

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V5.0	-		
2	V3.3	-		
3	V1.8	-		
4	CAM1_PWDN	J2-120	CAM1_PWDN	
5	SCL_2	J2-213	CAM_I2C_SCL	Muxed using J2-130(GPIO3_PCC03_p130) - (Muxed-1 Signal)
6	SDA_2	J2-215	CAM_I2C_SDA	Muxed using J2-130(GPIO3_PCC03_p130) - (Muxed-1 Signal)
7	CSI_B.D2_N	J2-21	CSI3_D0_N	



Pin	Board Signal	Socket Pin	Signal Name	Description
8	CSI_B.D2_P	J2-23	CSI3_D0_P	
9	CSI_B.D1_N	J2-34	CSI2_D1_N	
10	CSI_B.D1_P	J2-36	CSI2_D1_P	
11	CSI_B.D0_N	J2-22	CSI2_D0_N	
12	CSI_B.D0_P	J2-24	CSI2_D0_P	
13	CSI_B.CLK_N	J2-28	CSI2_CLK_N	
14	CSI_B.CLK_P	J2-30	CSI2_CLK_P	
15	CSI_B.D3_N	J2-33	CSI3_D1_N	
16	CSI_B.D3_P	J2-35	CSI3_D1_P	
17	V5.0	-		
18	V5.0	-		
19	V5.0	-		
20	V5.0	-		

J4

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	GEN1_I2C_SCL	J2-185	I2C0_SCL	
3	GEN1_I2C_SDA	J2-187	I2C0_SDA	



Pin	Board Signal	Socket Pin	Signal Name	Description
4	GND	-		

J5

Lotes-APCI0453 | Lotes extra high M.2 Key M (Advertima)

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	V3.3_M2	-		
3	GND	-		
4	V3.3_M2	-		
5	PEX-RX4_N	J2-155	PCIE0_RX3_N	
7	PEX-RX4_P	J2-157	PCIE0_RX3_P	
9	GND	-		
10	DAS	-		
11	PEX-TX4_N	J2-154	PCIE0_TX3_N	
12	V3.3_M2	-		
13	PEX-TX4_P	J2-156	PCIE0_TX3_P	
14	V3.3_M2	-		
15	GND	-		
16	V3.3_M2	-		
17	PEX-RX3_N	J2-149	PCIE0_RX2_N	
18	V3.3_M2	-		
19	PEX-RX3_P	J2-151	PCIE0_RX2_P	
21	GND	-		
23	PEX-TX3_N	J2-148	PCIE0_TX2_N	
25	PEX-TX3_P	J2-150	PCIE0_TX2_P	



Pin	Board Signal	Socket Pin	Signal Name	Description
27	GND	-		
29	PEX-RX2_N	J2-137	PCIE0_RX1_N	
31	PEX-RX2_P	J2-139	PCIE0_RX1_P	
33	GND	-		
35	PEX-TX2_N	J2-140	PCIE0_TX1_N	
37	PEX-TX2_P	J2-142	PCIE0_TX1_P	
38	-	-		
39	GND	-		
41	PEX-RX1_N	J2-131	PCIE0_RX0_N	
43	PEX-RX1_P	J2-133	PCIE0_RX0_P	
45	GND	-		
47	PEX-TX1_N	J2-134	PCIE0_TX0_N	
49	PEX-TX1_P	J2-136	PCIE0_TX0_P	
50	PCIE_L0_RST	J2-181	PCIE0_RST*	
51	GND	-		
52	V3.3_M2	-		
53	PCle_x4.PEX_CLK1_N	J2-160	PCIE0_CLK_N	
54	PCle_KeyE.PCIE_WAKE_L0	J2-179	PCIE_WAKE*	
55	PCle_x4.PEX_CLK1_P	J2-162	PCIE0_CLK_P	
57	GND	-		
70	V3.3_M2	-		
71	GND	-		
72	V3.3_M2	-		
73	GND	-		
74	V3.3_M2	-		
75	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
P3	GND	-		

J6

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V_USB	-		
2	USB0-D_N	J2-109	USB0_D_N	
3	USB0-D_P	J2-111	USB0_D_P	
4	GND	-		

J8

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V5.0	-		
2	UART0_TXD_33	-		
3	UART0_RXD_33	-		
4	GND	-		

J9

BM10B-GHS-TB | A1256-SV10 JST-GH vertical

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



Pin	Board Signal	Socket Pin	Signal Name	Description
3	Vpwr_ext	-		
4	Vpwr_ext	-		
5	Vpwr_ext	-		
6	GND	-		
7	GND	-		
8	GND	-		
9	GND	-		
10	GND	-		

J10

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

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

J11

NANOT 240 AS | micro tactile switch (2.1x1.65mm)

Pin	Board Signal	Socket Pin	Signal Name	Description
1	DC_PWR_EN	J2-239	SYS_RESET*	
2	GND	-		

J12

SM3ZS067U410AER1000 | 67p M.2 key E 4.1/2.5mm

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	V3.3	-		
3	USB1-D_P	J2-117	USB1_D_P	USB Hub (Port-2)
4	V3.3	-		
5	USB1-D_N	J2-115	USB1_D_N	USB Hub (Port-2)
7	GND	-		
18	GND	-		
33	GND	-		
35	PEX-R1_P	J2-174	PCIE1_TX0_P	
37	PEX-R1_N	J2-172	PCIE1_TX0_N	
39	GND	-		
41	PCIE2_RX_P	J2-169	PCIE1_RX0_P	
43	PCIE2_RX_N	J2-167	PCIE1_RX0_N	
44	-	-		
45	GND	-		
47	PCIE2_CLK_P	J2-175	PCIE1_CLK_P	
49	PCIE2_CLK_N	J2-173	PCIE1_CLK_N	
51	GND	-		
52	PCIE2_RST*	J2-183	PCIE1_RST*	

Pin	Board Signal	Socket Pin	Signal Name	Description
53	PCIE2_CLKREQ*	J2-182	PCIE1_CLKREQ*	
54	W_DISABLE#-2	-		
55	PCle_KeyE.PCIE_WAKE_L0	J2-179	PCIE_WAKE*	
56	W_DISABLE#-1	-		
57	GND	-		
63	GND	-		
69	GND	-		
72	V3.3	-		
74	V3.3	-		
75	GND	-		
P1	GND	-		
P2	GND	-		
P3	GND	-		

J13

BM06B-SRSS-TB | JST 1mm 6 pol vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V3.3	-		
2	UART2_TXD_33	-		
3	UART2_RXD_33	-		
4	SWCLK	-		
5	SWDIO	-		
6	GND	-		



J14

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		

J15

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		

J16

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		



J17

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		

J18

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		

J19

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		



J20

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		

J21

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_2	U19-7		
3	CAN_L_2	U19-6		
4	GND	-		

J22

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN_H_3	U16-7		
3	CAN_L_3	U16-6		
4	GND	-		



J23

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN-1.CAN_H	-		
3	CAN-1.CAN_L	-		
4	GND	-		

J24

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN-1.CAN_H	-		
3	CAN-1.CAN_L	-		
4	GND	-		

J25

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN-1.CAN_H	-		
3	CAN-1.CAN_L	-		
4	GND	-		



J26

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN-1.CAN_H	-		
3	CAN-1.CAN_L	-		
4	GND	-		

J27

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_5V_PPM_SBUS_RC	-		
2	DSM-RX	-		
3	SBUS-PROT	-		
4	GND	-		

J28

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_5V_HIPOWER	-		
2	-	-		
3	-	-		
4	GND	-		



J29

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VBUS	-		
2	USB_N	-		Muxed using Q22-D(SEL) - (Muxed-0 Signal)
3	USB_P	-		Muxed using Q22-D(SEL) - (Muxed-0 Signal)
4	GND	-		

J30

20455-020E-76 | MicroCoax IPEX 20p

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V5.0	-		
2	V3.3	-		
3	V1.8	-		
4	CAM0_PW DN	J2-114	CAM0_PW DN	
5	CAM- I2C_SCL	J2-213	CAM_I2C_ SCL	Muxed using J2- 130(GPIO3_PCC03_p130) - (Muxed-0 Signal)
6	CAM- I2C_SDA	J2-215	CAM_I2C_ SDA	Muxed using J2- 130(GPIO3_PCC03_p130) - (Muxed-0 Signal)
7	CSI_A.D2 _N	J2-3	CSI1_D0_ N	

Pin	Board Signal	Socket Pin	Signal Name	Description
8	CSI_A.D2_P	J2-5	CSI1_D0_P	
9	CSI_A.D1_N	J2-16	CSI0_D1_N	
10	CSI_A.D1_P	J2-18	CSI0_D1_P	
11	CSI_A.D0_N	J2-4	CSI0_D0_N	
12	CSI_A.D0_P	J2-6	CSI0_D0_P	
13	CSI_A.CLK_N	J2-10	CSI0_CLK_N	
14	CSI_A.CLK_P	J2-12	CSI0_CLK_P	
15	CSI_A.D3_N	J2-15	CSI1_D1_N	
16	CSI_A.D3_P	J2-17	CSI1_D1_P	
17	V5.0	-		
18	V5.0	-		
19	V5.0	-		
20	V5.0	-		

J31

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	-		

J32

PB-SV04 | PicoBlade 4p vert A1251-SV04

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		
2	V5.0	-		
3	-	-		
4	-	-		

J33

BM10B-GHS-TB | A1256-SV10 JST-GH vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND_S	-		
2	P0_4_N	-		
3	P0_4_P	-		
4	P0_3_N	-		
5	P0_3_P	-		
6	P0_2_N	-		
7	P0_2_P	-		
8	P0_1_N	-		
9	P0_1_P	-		
10	GND_S	-		

J34

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V_USB2	-		
2	D-3_N	-		
3	D-3_P	-		
4	GND	-		

J35

BM10B-GHS-TB | A1256-SV10 JST-GH vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND_S	-		
2	P2_4_N	-		
3	P2_4_P	-		
4	P2_3_N	-		
5	P2_3_P	-		
6	P2_2_N	-		
7	P2_2_P	-		
8	P2_1_N	-		
9	P2_1_P	-		
10	GND_S	-		

J36

BM10B-GHS-TB | A1256-SV10 JST-GH vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND_S	-		
2	P3_4_N	-		
3	P3_4_P	-		
4	P3_3_N	-		
5	P3_3_P	-		
6	P3_2_N	-		
7	P3_2_P	-		
8	P3_1_N	-		
9	P3_1_P	-		
10	GND_S	-		

J37

SM3ZS067U410ABR1000 | 67p M.2 key B 4.1/2.5mm

Pin	Board Signal	Socket Pin	Signal Name	Description
2	V3.3_MB	-		
3	GND	-		
4	V3.3_MB	-		
5	GND	-		
6	POWER_ON	-		
7	USB-D4_P	J2-117	USB1_D_P	USB Hub (Port-1)



Pin	Board Signal	Socket Pin	Signal Name	Description
8	W_DISABLE#	-		
9	USB-D4_N	J2-115	USB1_D_N	USB Hub (Port-1)
10	WIFI_LED#	-		
11	GND	-		
21	GND	-		
23	Wake_On_WWAN	-		
27	GND	-		
29	RX_3_N	J2-161	USBSS0_RX_N	
30	UIM_RESET_1	-		
31	RX_3_P	J2-163	USBSS0_RX_P	
32	UIM_CLK_1	-		
33	GND	-		
34	UIM_DATA_1	-		
35	TX-3_N	J2-166	USBSS0_TX_N	
36	UIM_PWR_1	-		
37	TX-3_P	J2-168	USBSS0_TX_P	
38	-	-		
39	GND	-		
45	GND	-		
51	GND	-		
57	GND	-		
66	SIM_DET	-		
67	RESET#	-		
69	GND	-		
70	V3.3_MB	-		
71	GND	-		



Pin	Board Signal	Socket Pin	Signal Name	Description
72	V3.3_MB	-		
73	GND	-		
74	V3.3_MB	-		
P1	V3.3_MB	-		
P2	V3.3_MB	-		
P3	GND	-		

J38

BM04B-GHS-TB | JST GH 4pin vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN-1.CAN_H	-		
3	CAN-1.CAN_L	-		
4	GND	-		

J40

20455-020E-76 | MicroCoax IPEX 20p

Pin	Board Signal	Socket Pin	Signal Name	Description
1	V_USB2	-		
4	PWDN4	-		
15	D-4_N	J2-115	USB1_D_N	USB Hub (Port-4)
16	D-4_P	J2-117	USB1_D_P	USB Hub (Port-4)
17	V_USB2	-		
18	V_USB2	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
19	V_USB2	-		
20	V_USB2	-		

J41

20455-020E-76 | MicroCoax IPEX 20p

Pin	Board Signal	Socket Pin	Signal Name	Description
1	-	-		
2	CAN-1.CAN_H	-		
3	CAN-1.CAN_L	-		
4	GND	-		
15	USB2-D_N	J2-121	USB2_D_N	
16	USB2-D_P	J2-123	USB2_D_P	
17	V_USB2	-		
18	V_USB2	-		
19	V_USB2	-		
20	V_USB2	-		

J42

SM04B-SURS-TF | JST SUR SMD 4pos 0.8mm horiz. 1.78mm H

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



J43

BM10B-GHS-TB | A1256-SV10 JST-GH vertical

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD_5V_HIPOWER	-		
2	FMU-CH1-PROT	-		
3	FMU-CH2-PROT	-		
4	FMU-CH3-PROT	-		
5	FMU-CH4-PROT	-		
6	FMU-CH5-PROT	-		
7	FMU-CH6-PROT	-		
8	FMU-CH7-PROT	-		
9	FMU-CH8-PROT	-		
10	GND	-		

J44

BM06B-GHS-TB | A1256-SV06

Pin	Board Signal	Socket Pin	Signal Name	Description
1	VDD5V_BRICK2	-		
2	VDD5V_BRICK2	-		
3	I2C2_SCL_BASE_GPS2_MAG_LED_PM2	-		
4	I2C2_SDA_BASE_GPS2_MAG_LED_PM2	-		
5	GND	-		

Pin	Board Signal	Socket Pin	Signal Name	Description
6	GND	-		

P1

Wuerth-9774050243R | Spacer M2 5mm

Pin	Board Signal	Socket Pin	Signal Name	Description
-----	--------------	------------	-------------	-------------

P2

Wuerth-9774025243R | M2x2.5 Spacer

Pin	Board Signal	Socket Pin	Signal Name	Description
-----	--------------	------------	-------------	-------------

P8

WUERTH-9774027151R | Spacer M2.5x2.7

Pin	Board Signal	Socket Pin	Signal Name	Description
-----	--------------	------------	-------------	-------------

P9

WUERTH-9774027151R | Spacer M2.5x2.7

Pin	Board Signal	Socket Pin	Signal Name	Description
-----	--------------	------------	-------------	-------------

P12

WUERTH-9774025360R | Spacer M3x2.5mm

Pin	Board Signal	Socket Pin	Signal Name	Description
1	GND	-		



© Auvideo GmbH 2026 All Rights Reserved

No part of this document or any of its contents may be reproduced, copied, modified or adapted, without the prior written consent of the author, unless otherwise indicated for stand-alone materials. You may share this document by any of the following means: this document file may be distributed freely if no changes or modifications to the document are made. For any other mode of sharing, please contact the author at the email below. info@auvideo.com Commercial use and distribution of the contents of this document is not allowed without express and prior written consent of Auvideo GmbH.

Disclaimer

Thank you for reading this document. While we strive to ensure the information is accurate and complete, this document was automatically generated from production files and might be missing information that could not be automatically parsed. This is a preliminary version of the document, and specifications may change without notice. If you find any issues, please let us know.

