

1. Module Pinning Description

Al: Analog Input

I: Input O: Output

I/O: Input or Output

P: Power REF: An

1.1. Application A9MVali

Following table shows the configuration of the module pins and the usage at the base board A9MVali.

X1	Type	U-Boot	5V tol	A9M2410 Name	A9M2410 Description	Application A9MVali
1	Р	-	-	GND	7.0	, application , tom van
2	I	-	No	RSTIN#	Reset Input, i.e. Push Button on the module this signal is the input to a reset controller Pullup 10k to +3.3V already on module	Push Button with 10k pull-up
3	I/O	-	No	PWRGOOD	Output of the reset controller open drain or push pull with 1K current limiting resistor	
4	0	RSTOU T#	No	RSTOUT#/ GPA21	Output of CPU, Softw. + WDT + RSTIN#	
5		-	No	TCK	JTAG, Pullup 10k to +3.3V on module	
6	_	ı	No	TMS	JTAG, Pullup 10k to +3.3V on module	
7	ı	-	No	TDI	JTAG, Pullup 10k to +3.3V on module	
8	0	-	No	TDO	JTAG, Pullup 10k to +3.3V on module	
9		-	No	TRST#	JTAG, Pullup 10k to +3.3V on module	
10	I	-	No	CONF0/ DEBUGEN#	Debug Enable, Pullup 10k to +3.3V on module 0 = Debug enabled, TRST# isolated from SRST#	Connected to DIP- switch S2.1 ON: connected to GND
11	I	-	No	CONF1/ NAND_FWP#	NAND Flash Write Protect, Pullup 10k to +3.3V on module 0 = NAND Flash write protected	Connected to DIP- switch S2.2 ON: connected to GND
12	I	-	No	CONF2/ (BOOTEXT#)	Reserved, do not connect; Pullup 10k to +3.3V on module (A9M2410_0)	Connected to DIP- switch S2.3 ON: connected to GND
13	I	-	No	CONF3/ (F4STEP)	Reserved, do not connect, Pullup 10k to +3.3V on module (A9M2410_0)	Conected to DIP- switch S2.4 ON: connected to GND
14	I/O	I	No	CONF4/ GPF2/EINT2	Pullup 10k missing on module (A9M2410_0)	Connected to DIP- switch S2.5 ON: connected to GND
15	I/O	I	No	CONF5/ GPF3/EINT3	Pullup 10k missing on module (A9M2410_0)	Connected to DIP- switch S2.6 ON: connected to GND
16	I/O	I	No	CONF6/ GPF4/EINT4	Pullup 10k missing on module (A9M2410_0)	Connected to DIP- switch S2.7 ON: connected to GND
17	I/O	I	No	CONF7/	Pullup 10k missing on module	Connected to DIP-



X 1	Туре	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9MVali
				GPF5/EINT5	(A9M2410 0)	switch S2.8 ON: connected to
- 10					_ /	GND
18	I/O	TxD0	No	TxD0/ GPH2	Configured to TxD0	Connected via RS232 driver to COMA, X9
19	I/O	RxD0	No	RxD0/ GPH3	Configured to RxD0	Connected via RS232 driver to COMA, X9
20	1/0	RTS0#	No	RTS0#/ GPH1	Configured to RTS0#	Connected via RS232 driver to COMA, X9
21	I/O	CTS0#	No	CTS0#/ GPH0	Configured to CTS0#	Connected via RS232 driver to COMA, X9
22	-	-	-	NC NC		
23	- I/O	TxD1	- No	NC TxD1/	Configured to TxD1	Connected via RS232
		RxD1		GPH4		driver to COMB, X7 Connected via RS232
25	I/O		No	RxD1/ GPH5	Configured to RxD1	driver to COMB, X7
26	I/O	RTS1#	No	RTS1#/ GPH6/TxD2	Configured to RTS1#, Could also be used as TxD2	driver to COMB, X7
27	I/O	CTS1#	No	CTS1#/ GPH7/RxD2	Configured to CTS1#, Could also be used as RxD2	Connected via RS232 driver to COMB, X7
28	-	-	-	NC NO		
29 30	-	-	-	NC NC		
31			_	NC		
32	-	-	-	NC		
33 34	-	-	-	NC NC		
35	-	-	-	NC NC		
36	-	-	-	NC		
37	I/O	I	No	VD0/ GPC8	Configured as input, pull-up enabled	Not used
38	I/O	I	No	VD1/ GPC9	Configured as input, pull-up enabled	Not used
39	Р	Р	-	GND		
40	I/O	I	No	VD2/ GPC10	Configured as input, pull-up enabled	Not used
41	I/O	I	No	VD3/ GPC11	Configured as input, pull-up enabled	Not used
42	I/O	I	No	VD4/ GPC12	Configured as input, pull-up enabled	Not used
43	I/O	I	No	VD5/ GPC13	Configured as input, pull-up enabled	Not used
44	I/O	I	No	VD6/ GPC14	Configured as input, pull-up enabled	Not used
45	I/O	I	No	VD7/ GPC15	Configured as input, pull-up enabled	Not used
46	I/O	I	No	VD8/ GPD0	Configured as input, pull-up enabled	Not used
47	I/O	I	No	VD9/ GPD1	Configured as input, pull-up enabled	Not used
48	I/O	I	No	VD10/ GPD2	Configured as input, pull-up enabled	Not used
49	I/O	I	No	VD11/ GPD3	Configured as input, pull-up enabled	Not used
50	I/O	I	No	VD12/ GPD4	Configured as input, pull-up enabled	Not used
51	I/O	I	No	VD13/ GPD5	Configured as input, pull-up enabled	Not used
52	I/O	I	No	VD14/ GPD6	Configured as input, pull-up enabled	Not used
53	I/O	I	No	VD15/ GPD7	Configured as input, pull-up enabled	Not used
54	I/O	I	No	VD16/ GPD8	Configured as input, pull-up enabled	Not used
55	I/O	I	No	VD17/ GPD9	Configured as input, pull-up enabled	Not used
56	I/O	I	No	VD18/ GPD10	Configured as input, pull-up enabled	Not used
57	I/O	I	No	VD19/ GPD11	Configured as input, pull-up enabled	Not used



X1	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9MVali
58	I/O		No	VD20/ GPD12	Configured as input, pull-up enabled	Not used
59	I/O	I	No	VD21/ GPD13	Configured as input, pull-up enabled	Not used
60	I/O	I	No	VD22/ GPD14/SS1#	Configured as input, pull-up enabled	Not used
61	I/O	I	No	VD23/ GPD15/SS0#	Configured as input, pull-up enabled	Not used
62	I/O	I	No	LCD_PWREN/ GPG4/EINT12	Configured as input, pull-up enabled	Not used
63	I/O	I	No	VM/ GPC4	Configured as input, pull-up enabled	Not used
64	I/O	I	No	VFRAME/ GPC3	Configured as input, pull-up enabled	Not used
65	I/O	I	No	VLINE/ GPC2	Configured as input, pull-up enabled	Not used
66	I/O	I	No	VCLK/ GPC1	Configured as input, pull-up enabled	Not used
67	I/O	I	No	LEND/ GPC0	Configured as input, pull-up enabled	Not used
68	I/O	I	No	LCDVF0/ GPC5	Configured as input, pull-up enabled	Not used
69	I/O	I	No	LCDVF1/ GPC6	Configured as input, pull-up enabled	Not used
70	I/O	I	No	LCDVF2/ GPC7	Configured as input, pull-up enabled	Not used
71	I/O	I	No	TOUT0/ GPB0	Configured as input, 10k pull-up at A9M2410 1	Not used
72	I/O	I	No	TOUT1/ GPB1	Configured as input, 10k pull-up at A9M2410 1	Not used
73	I/O	I	No	TOUT2/ GPB2	Configured as input, 10k pull-up at A9M2410 1	Not used
74	I/O	I	No	TOUT3/ GPB3	Configured as input, pull-up enabled	Not used
75	I/O	SDCLK	No	SDCLK/ GPE5	SD-Interface, pull-up disabled	Not used
76	I/O	SDCMD	No	SDCMD/ GPE6	Pull-up enabled	Not used
77	I/O	SDDATA	No	SDDATA0/ GPE7	Pull-up enabled	Not used
78	I/O	SDDATA	No	SDDATA1/ GPE8	Pull-up enabled	Not used
79	Р	-	-	GND		
80	I/O	SDDATA 2	No	SDDATA2/ GPE9	Pull-up enabled	Not used
81	I/O	SDDATA	No	SDDATA3/ GPE10	Pull-up enabled	Not used
82	I/O	EINT0	No	EINT0/ GPF0	External Interrupt, pull-up enabled	Not used
83	-	-	-	NC		
84	I/O	0	No	EINT6/ GPF6	DEBUG LED	DEBUG LED
85	1/0	EINT11	No	EINT11/ GPG3/SS1#	External Interrupt, pull-up enabled	Not used
86	I/O	EINT13	No	EINT13/ GPG5/SPIMISO 1	External Interrupt, pull-up enabled	Not used
87	I/O	EINT14	No	EINT14/ GPG6/SPIMOSI 1	External Interrupt, pull-up enabled	Not used
88	I/O	EINT15	No	EINT15/ GPG7/SPICLK1	External Interrupt, pull-up enabled	Not used
89	I/O	EINT17	Yes	EINT17/ GPG9	External Interrupt, pull-up enabled	Not used
90	I/O	EINT18	Yes	EINT18/ GPG10	External Interrupt, pull-up enabled	Not used
91	-	-	-	NC		



92	X1	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9MVali
1	92		-		OE#		
95	93	0	-		WE#	22R series resistor on module	Not used
Section Sect	94	I	-	No	WAIT#	Pullup 5k to +3.3V on module	Not used
	95	I/O	CS1#	No	CS1#/		Not used
					GPA12		
96							
Part	00	1/0	CC2#	Nia	000#/		Netweed
Part	96	1/0	CS2#	NO			Not used
					GFAIS		
97							
Defaults to Ouput/High at reset, can be redefined as I/O pin.	97	I/O	CS3#	No	CS3#/		Not used
Can be redefined as I/C pin.					GPA14		
98							
SPIMOS		110	00.4#		00.444		
Defaults to Ouput/High at reset, can be redefined as I/O pin.	98	I/O	CS4#	No			Not used
Can be redefined as I/O pin.					GPATS		
99							
100	99	0	_	Nο	PWRFN		Not used
		·					
Used							
100						Must be left unconnected if not	
Battery Monitor Output Pullup Sk to +3.3V on module, can be left unconnected Supervision of VLiO							
Pullup 6k to +3.3V on module, can be left unconnected	100	I	-	No	BATT_FLT#		
Can be left unconnected Can be left unconnected							(supervision of VLIO)
101							
102	101	_	_		NC.	can be left unconnected	
103		-	_				
104			-			Upper Byte/Lower Byte Enable	Not used
105			-				
107 1/O SS0# No SS0# SPI0, pull-up enabled Not used	105	0	-	No	DQM2		
GPG2/EINT10 GPG2/EINT10 SPIMISON SPIMISON GPE11 GPE11 GPE11 GPE11 GPE11 GPE11 GPE12 GPE12 GPE12 GPE12 GPE12 GPE13 GPE13 GPE13 GPE13 GPE13 GPE13 GPE14 GPE14 GPE14 GPE14 GPE15 GPE16 GPE15 GPE16 GPE16 GPE16 GPE17 GPE17 GPE18 GPE18 GPE19 GP	106	0	-	No	DQM3		Not used
108 I/O SPIMIS No SPIMISOO GPE11 OO SPIMOS OO SPIMOS OO SPIMOS OO SPIMOS OO SPIMOS OO SPIMOS OO SPICLKO GPE12 OO OO OO OO OO OO OO	107	I/O	SS0#	No		SPI0, pull-up enabled	Not used
SPIMIS OO							
109 I/O SPIMOS No SPIMOSIO GPE12 Pull-up enabled Not used	108	I/O	0011410	No		Pull-up enabled	Not used
109 I/O SPIMOS No SPIMOSIO GPE12 Pull-up enabled Not used					GPE11		
SPIMOS GPE12 SPICLK0 SPICLK0 SPICLK0 GPE13 Pull-up disabled Not used SPICLK0 GPE13 Pull-up disabled Not used SPICLK0 GPE13 Pull-up disabled Not used SPICLK0 GPE14 Module PiC data, Pullup 4k7 to 3.3V on module USB device: output to used USB Detect/PowerEnable, by default set to input, to support USB host functionality USB host functionality USB host functionality USB host functionality USB data line + resistor only on module A9M2410_0 USB data line + A9M2410_0 USB host1, device, (22R series resistor only on module A9M2410_0 USB host1, device, (22R series resistor only on module A9M2410_0 USB host1, device, (22R series resistor only on module A9M2410_0 USB host1, device, (22R series resistor only on module A9M2410_0 USB data line - Resistor only on module A9M2410_0 USB	109	I/O	00	No	SPIMOSIO	Pull-un enabled	Not used
110	100	110	SPIMOS	140		an ap chabled	Not abou
SPICLK GPE13 GPE13 SPICLK O IICSCL No IICSCL GPE14 module IICSCL GPE14 module IICSCL GPE14 module IICSCL GPE15 IICSDA			10				
111 I/O IICSCL No IICSCL GPE14 IPC clock, Pullup 4k7 to 3.3V on module IICSDA IPC clock, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA GPE15 IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IICSDA IPC data, Pullup 4k7 to 3.3V on module IP	110	I/O		No	SPICLK0	Pull-up disabled	Not used
111 I/O IICSCL No IICSCL GPE14 IPC clock, Pullup 4k7 to 3.3V on module IPC data, Pullup 4k7 to 3.3V on					GPE13		
ICSDA No IICSDA Regret IICSDA							
112 I/O IICSDA No IICSDA GPE15 GPE15 USB Detect/PowerEnable, by default set to input, to support USB host: input to recognize current limit from connected device USB host functionality USB data line +	111	1/0	IICSCL	No			Not used
I/O	112	1/0	IICSDV	No			Notucod
I/O	112	1/0	IIOODA	INU			เพอเ นอธน
GPG0/EINT8 default set to input, to support USB host functionality switch on 1k5 pull-up resistor USB host input to recognize current limit from connected device	113	I/O		No			USB device: output to
USB host functionality resistor USB host: input to recognize current limit from connected device 114 I/O USBP YES USBP USB host1, device, (22R series resistor only on module A9M2410_0) USB host1, device, (22R series resistor only on module A9M2410_0) USB host1, device, (22R series resistor only on module A9M2410_0) Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P - WLIO Mobile: Power from Li-lon Battery Delivers either power from Li-lon battery or							
Tecognize current limit from connected device							resistor
The content of the							
114 I/O USBP YES USBP USB host1, device, (22R series resistor only on module A9M2410_0) USB host1, device, (22R series resistor only on module A9M2410_0) USB host1, device, (22R series resistor only on module A9M2410_0) USB data line - 116 P - - VRTC Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 3V battery connected floating, if RTC backup not needed. 117 P - - GND 118 P - +3.3V 119 P - - VLIO Mobile: Power from Li-lon Battery or from Li-lon battery or							
resistor only on module A9M2410_0) 115 I/O USBN YES USBN USBN USB host1, device, (22R series resistor only on module A9M2410_0) 116 P - VRTC Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-Ion Battery or	144	1/0	HODE	VEO	LICDD	UCD hoots device (CCD and	
A9M2410_0) 115 I/O USBN YES USBN USBN USB host1, device, (22R series resistor only on module A9M2410_0) 116 P - VRTC Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - H3.3V 119 P - WLIO Mobile: Power from Li-lon Battery or Battery or Battery or From Li-lon Battery From Li-	114	1/0	OSRL	TES	NO2RL		OSB data line +
115 I/O USBN YES USBN USB host1, device, (22R series resistor only on module A9M2410_0) USB data line - 116 P - - VRTC Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 3V battery connected cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-lon Battery or from Li-lon battery or							
resistor only on module A9M2410_0) 116 P - VRTC Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - H3.3V 119 P - VLIO Mobile: Power from Li-lon Battery From Li-lon battery or	115	I/O	USBN	YES	USBN		USB data line -
A9M2410_0) 116 P VRTC Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P VLIO Mobile: Power from Li-Ion Battery or				-			
cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-Ion Battery from Li-Ion battery or						A9M2410_0)	
power-switch-over is on the module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-lon Battery from Li-lon battery or	116	P	-	-	VRTC		3V battery connected
module, Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-lon Battery from Li-lon battery or							
Can be left floating, if RTC backup not needed. 117 P - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-lon Battery from Li-lon battery or						II.	
backup not needed. 117 P - GND 118 P - +3.3V 119 P - VLIO Mobile: Power from Li-lon Battery from Li-lon battery or							
117 P - - GND 118 P - - +3.3V 119 P - - VLIO Mobile: Power from Li-lon Battery Delivers either power from Li-lon battery or							
118 P - +3.3V 119 P - - VLIO Mobile: Power from Li-lon Battery Delivers either power from Li-lon battery or	117	Р	-	-	GND	.,	
119 P VLIO Mobile: Power from Li-Ion Delivers either power from Li-Ion battery or			-	-			
	119		-	-		Mobile: Power from Li-Ion	
Non-Mobile: connected to 3.3V 3.3V							
						Non-Mobile: connected to 3.3V	3.3V



X1	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9MVali
120	Р	-	-	+3.3V		



Х2	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9MVali
1	I/O	USBP0	Yes	USBP0	USB host0, (22R series resistor only on module A9M2410 0)	Not used
2	Р	_	_	GND	only on module Asivi2410_0)	
3	1/0	USBN0	Yes	USBN0	USB host0, (22R series resistor	Not used
					only on module A9M2410_0)	
4	0	A0	No	A0/GPA0	used as address of ETH-Contr. on module, should not be used as I/O pin for	Not used
_			NI-	A 4	compatibility	Netweed
5 6	0	-	No No	A1 A2		Not used Not used
7	0	-	No	A3		Not used
8	0	_	No	A4		Not used
9	0	-	No	A5		Not used
10	0	-	No	A6		Not used
11	0	-	No	A7		Not used
12	0	-	No	A8		Not used
13	0	-	No	A9		Not used
14	0	-	No	A10		Not used
15	0	-	No	A11		Not used
16	0	-	No	A12		Not used
17	0	-	No	A13		Not used
18	0	-	No	A14		Not used
19	0	-	No	A15		Not used
20	0	A16	No	A16/GPA1	used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Not used
21	0	A17	No	A17/GPA2	used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Not used
22	0	A18	No	A18/GPA3	used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Not used
23	0	A19	No	A19/GPA4	used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Not used
24	0	A20	No	A20/GPA5	should not be used as I/O pin for compatibility	Not used
25	0	A21	No	A21/GPA6	should not be used as I/O pin for compatibility	Not used
26	0	A22	No	A22/GPA7	should not be used as I/O pin for compatibility	Not used
27	0	A23	No	A23/GPA8	should not be used as I/O pin for compatibility	Not used
28	0	A24	No	A24/GPA9	should not be used as I/O pin for compatibility	Not used
29	0	A25	No	A25/GPA10	should not be used as I/O pin for compatibility	
30	0	A26	No	A26/GPA11	should not be used as I/O pin for compatibility	Not used
31	-	-	-	Reserved	(A27)	
32	-	-	-	Reserved	(A28)	
33	-	-	-	Reserved	(A29)	
34	-	-	-	Reserved	(A30)	
35	-	-	-	Reserved	(A31)	
36	I/O	I	No	XDREQ0#/ GPB10	Configured as input, pull-up enabled	Not used
37	I/O	ı	No	XDREQ1#/ GPB8	Configured as input, pull-up enabled	Not used
38	I/O	I	No	XDACK0#/ GPB9	Configured as input, pull-up enabled	Not used
39	I/O	I	No	XDACK1#/ GPB7	Configured as input, pull-up enabled	Not used
40	Р	-	-	GND		



	Туре	U-Boot	5V tol	A9M2410 Name	A9M2410 Description	Application A9MVali
X2	-			AOMETIC Nume	Activity to Description	Application Admital
41	-	-	-			
43	Al	-	No	AINO	Analog in, unused analog inputs should be connected to AGND over a 10k series resistor to avoid cross over.	Not used
44	ΑI	-	No	AIN1		Not used
45	ΑI	-	No	AIN2		Not used
46	ΑI	-	No	AIN3		Not used
47	Al	-	No	AIN4		Not used
48	AI	-	No	AIN5		Not used
49	Al	-	No	AIN6		Not used
50	Al	-	No	AIN7	Analas VCC	Not used
51	REF	-	No	AVCC	Analog VCC, Is the extra filtered +3.3V, connected with the AVCC ball of the CPU Can be used as an analog reference, do not connect to any other power source.	Not used
52	REF	-	No	AGND	Analog GND, Is the extra filtered GND, connected with the AGND ball of the CPU, Can be used as an analog reference, do not connect to any other power source.	Not used
53	I/O	XPON#	No	XPON#/ GPG13/EINT21	Touch Screen, pull-up disabled	Not used
54	I/O	XMON	No	XMON/ GPG12/EINT20	pull-up disabled	Not used
55	I/O	YPON#	No	YPON#/ GPG15/EINT23	pull-up disabled	Not used
56	I/O	YMON	No	YMON/ GPG14/EINT22	pull-up disabled	Not used
57	I/O	I	No	XBREQ#/ GPB6	Configured as input, pull-up enabled	Not used
58	I/O	I	No	XBACK#/ GPB5	Configured as input, pull-up enabled	Not used
59	I/O	0	Yes	USBH0PEN/ GPG8/EINT16	USB host0 Power Enable	Not used
60 61	- I/O	- I2SSDO	- No	I2SSDO/ GPE4/I2SSDI	I2S-Interface, pull-up disabled	Not used
62	I/O	I2SSDI	No	I2SSDI/ GPE3/SS0#	pull-up disabled	Not used
63	I/O	CDCLK	No	CDCLK/ GPE2	pull-up disabled	Not used
64	I/O	I2SSCL K	No	I2SSCLK/ GPE1	pull-up disabled	Not used
65	I/O	I2SLRC K	No	I2SLRCK/ GPE0	pull-up disabled	Not used
66	I	-	No	TPIN	Ethernet 0 Input-, 100R differential termination on module	Connected to RJ45 with integrated magnetics
67	0	-	No	LEDLNK	Ethernet 0 Line/Activity LED High, when link ok Low, while active.	Connected to Link/Activity LED
68	I	-	No	TPIP	Ethernet 0 Input+, 100R differential termination on module	Connected to RJ45 with integrated magnetics
69 70	0	-	No No	not used TPON	reserved for high speed LED Ethernet 0 Output-, 100R differential termination on module	Connected to RJ45 with integrated magnetics
71	Ī	-	No	not used		



X2	Туре	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9MVali
72	0	-	No	TPOP	Ethernet 0 Output+, 100R differential termination on module	Connected to RJ45 with integrated magnetics
73	Р	-		Not used		
74	I	-	No	Reserved	A9M2410_0: R/B#, SmartMedia not supported in future, do not connect	Not used
75	0	-	No	Reserved	A9M2410_0: FWE#, SmartMedia not supported in future, do not connect	
76	0	-	No	Reserved	A9M2410_0: FWE#, SmartMedia not supported in future, do not connect	Not used
77	0	-	No	Reserved	A9M2410_0: FCEEXT#, SmartMedia not supported in future, do not connect	Not used
78	0	-	No	Reserved	A9M2410_0: ALE, SmartMedia not supported in future, do not connect	Not used
79	0	-	No	Reserved	A9M2410_0: CLE, SmartMedia not supported in future, do not connect	
80	Р	-		GND		
81	I/O	-	No	D0	Data Bus	Not used
82	1/0	-	No	D1		Not used
83	1/0	-	No	D2		Not used
84	1/0	-	No	D3		Not used
85	1/0	-	No	D4		Not used
86	1/0	-	No	D5		Not used
87 88	I/O I/O	-	No No	D6 D7		Not used Not used
89	1/0	-	No	D8		Not used
90	1/0	-	No	D9		Not used
91	1/0		No	D10		Not used
92	1/0	-	No	D10		Not used
93	I/O	-	No	D12		Not used
94	I/O	-	No	D13		Not used
95	I/O	-	No	D14		Not used
96	I/O	-	No	D15		Not used
97	I/O	-	No	D16		Not used
98	I/O	-	No	D17		Not used
99	1/0	-	No	D18		Not used
100	1/0	-	No	D19		Not used
101	1/0	-	No	D20		Not used
102 103	I/O I/O	-	No No	D21 D22		Not used Not used
103	1/0	-	No	D23		Not used
105	1/0	-	No	D24		Not used
106	I/O	-	No	D25		Not used
107	I/O	-	No	D26		Not used
108	I/O	-	No	D27		Not used
109	I/O	-	No	D28		Not used
110	I/O	-	No	D29		Not used
111	I/O	-	No	D30		Not used
112	I/O	-	No	D31		Not used
113	I/O	I	No No	TCLK0/ GPB4 TCLK1/	Configured as input, pull-up enabled Configured as input, pull-up	Not used Not used
115	1/0	1	INU	GPG11/EINT19	enabled	INOLUSEU
116	0	CLKOUT 1	No	CLKOUT1/ GPH10	Clock output, unbuffered CLKOUT1 signal, 22R series resistor on module	Not used
118 119	0	CLKOUT 0	No	BCLKOUT0/ GPH9	Clock output, buffered CLKOUT0 signal	Not used
120	Р	-		GND		
120	ı		l	CIAD	I	





1.2. Application A9M2410DEV

Following table shows the configuration of the module pins and the usage at the base board A9M2410DEV.

1				/ Come i i o i i a i i o	A9M2410 Description	Application A9M2410DEV
	Р	-	-	GND		GND
2	_	-	No	RSTIN#	Reset Input, i.e. Push Button on the module this signal is the input to a reset controller Pull-up 10k to +3.3V already on module	Push Button with 10k pull-up
3	I/O	-	No	PWRGOOD	Output of the reset controller push pull with 470R current limiting resistor	
4	0	RSTOUT #	No	RSTOUT#/ GPA21	Output of CPU, Softw. + WDT + RSTIN#	
5	I	-	No	TCK	JTAG, Pull-up 10k to +3.3V on module	
6	I	-	No	TMS	JTAG, Pull-up 10k to +3.3V on module	
7	I	-	No	TDI	JTAG, Pull-up 10k to +3.3V on module	
8	0	-	No	TDO	JTAG, Pull-up 10k to +3.3V on module	
9	Ι	-	No	TRST#	JTAG, Pull-up 10k to +3.3V on module	
10	I	-	No	CONF0/ DEBUGEN#	Debug Enable, Pull-up 10k to +3.3V on module 0 = Debug enabled, TRST# isolated from PWRGOOD	Connected to DIP- switch S2.1 ON: connected to GND
11	I	1	No	CONF1/ NAND_FWP#	NAND Flash Write Protect, Pull-up 10k to +3.3V on module 0 = NAND Flash write protected	Connected to DIP- switch S2.2 ON: connected to GND
12	_	1	No	CONF2/	Reserved, do not connect; Pull-up 10k to +3.3V on module	Connected to DIP- switch S2.3 ON: connected to GND
13	Ι	-	No	CONF3/	Reserved, do not connect, Pull-up 10k to +3.3V on module	Conected to DIP- switch S2.4 ON: connected to GND
14	0/1	_	No	CONF4/ GPF2/EINT2	Pull-up 10k to +3.3V on module	Connected to DIP- switch S2.5 ON: connected to GND
15	I/O	I	No	CONF5/ GPF3/EINT3	Pull-up 10k to +3.3V on module	Connected to DIP- switch S2.6 ON: connected to GND
16	I/O	I	No	CONF6/ GPF4/EINT4	Pull-up 10k to +3.3V on module	Connected to DIP- switch S2.7 ON: connected to GND
17	I/O	I	No	CONF7/ GPF5/EINT5	Pull-up 10k to +3.3V on module	Connected to DIP- switch S2.8 ON: connected to GND
18	I/O	TxD0	No	TxD0/ GPH2	Configured to TxD0	Connected via RS232 driver to COMA, X12
19	I/O	RxD0	No	RxD0/ GPH3	Configured to RxD0	Connected via RS232 driver to COMA, X12
20	I/O	RTS0#	No	RTS0#/ GPH1	Configured to RTS0#	Connected via RS232 driver to COMA, X12
21	I/O	CTS0#	No	CTS0#/ GPH0	Configured to CTS0#	Connected via RS232 driver to COMA, X12
22				NC		Connected to X28
22				NC		Connected to X28



X1	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9M2410DEV
24	I/O	TxD1	No	TxD1/ GPH4	Configured to TxD1	Connected via RS232 driver to COMB, X13
25	I/O	RxD1	No	RxD1/ GPH5	Configured to RxD1	Connected via RS232 driver to COMB, X13
26	I/O	RTS1#	No	RTS1#/ GPH6/TxD2	Configured to RTS1#, Could also be used as TxD2	, ,
27	I/O	CTS1#	No	CTS1#/ GPH7/RxD2	Configured to CTS1#, Could also be used as RxD2	
28				NC		Connected to X28
29				NC		Connected to X28
30				NC		Connected to X28
31				NC		Connected to X28
32				NC		Connected to X28
33				NC		Connected to X28
34 35			1	NC NC		Connected to X28 Connected to X28
36			1	NC		Connected to X28 Connected to X28
37	I/O	I	No	VD0/ GPC8	Configured as input, pull-up enabled	Not used
38	I/O	I	No	VD1/ GPC9	Configured as input, pull-up enabled	Not used
39	Р	Р	-	GND		GND
40	I/O	VD2	No	VD2/ GPC10	Configured as output, pull-up enabled	Connected to LCD adapter X26
41	I/O	VD3	No	VD3/ GPC11	Configured as output, pull-up enabled	Connected to LCD adapter X26
42	I/O	VD4	No	VD4/ GPC12	Configured as output, pull-up enabled	Connected to LCD adapter X26
43	I/O	VD5	No	VD5/ GPC13	Configured as output, pull-up enabled	Connected to LCD adapter X26
44	I/O	VD6	No	VD6/ GPC14	Configured as output, pull-up enabled	Connected to LCD adapter X26
45	I/O	VD7	No	VD7/ GPC15	Configured as output, pull-up enabled	Connected to LCD adapter X26
46	I/O	I	No	VD8/ GPD0	Configured as input, pull-up enabled	Not used
47	I/O	I	No	VD9/ GPD1	Configured as input, pull-up enabled	Not used
48	I/O	VD10	No	VD10/ GPD2	Configured as output, pull-up enabled	Connected to LCD adapter X26
49	1/0	VD11	No	VD11/ GPD3	Configured as output, pull-up enabled	Connected to LCD adapter X26
50	1/0	VD12	No	VD12/ GPD4	Configured as output, pull-up enabled	Connected to LCD adapter X26
51	1/0	VD13	No	VD13/ GPD5	Configured as output, pull-up enabled	Connected to LCD adapter X26
52	1/0	VD14	No	VD14/ GPD6	Configured as output, pull-up enabled	Connected to LCD adapter X26
53	1/0	VD15	No	VD15/ GPD7	Configured as output, pull-up enabled	Connected to LCD adapter X26
54	1/0	l	No	VD16/ GPD8	Configured as input, pull-up enabled	Not used
55	1/0	1	No	VD17/ GPD9	Configured as input, pull-up enabled	Not used
56	I/O	VD18	No	VD18/ GPD10	Configured as output, pull-up enabled	Connected to LCD adapter X26
57	1/0	VD19	No	VD19/ GPD11	Configured as output, pull-up enabled	Connected to LCD adapter X26
58	1/0	VD20	No	VD20/ GPD12	Configured as output, pull-up enabled	Connected to LCD adapter X26
59	I/O	VD21	No	VD21/ GPD13	Configured as output, pull-up enabled	Connected to LCD adapter X26
60	I/O	VD22	No	VD22/ GPD14/SS1#	Configured as output, pull-up enabled	Connected to LCD adapter X26



X1	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9M2410DEV
61	I/O	VD23	No	VD23/ GPD15/SS0#	Configured as output, pull-up enabled	Connected to LCD adapter X26
62	I/O	LCD_PW REN	No	LCD_PWREN/ GPG4/EINT12	Configured as output, pull-up disabled	Connected to LCD adapter X26
63	I/O	VDEN	No	VM/I2SSDI GPC4	Configured as output, pull-up disabled	Connected to LCD adapter X26
64	I/O	VSYNC	No	VFRAME/ GPC3	Configured as output, pull-up disabled	Connected to LCD adapter X26
65	1/0	HSYNC	No	VLINE/ GPC2	Configured as output, pull-up disabled	Connected to LCD adapter X26
66	I/O	LCD_HC LK	No	VCLK/ GPC1	Configured as output, pull-up disabled	Connected to LCD adapter X26
67	I/O	I	No	LEND/ GPC0	Configured as input, pull-up enabled	Not used
68	I/O	LCD_VF0	No	LCD_VF0/ GPC5	Configured as output, pull-up disabled	Connected to LCD adapter X26
69	I/O	LCD_VF1	No	LCD_VF1/ GPC6	Configured as output, pull-up disabled	Connected to LCD adapter X26
70	I/O	LCD_VF2	No	LCD_VF2/ GPC7	Configured as output, pull-up disabled	Connected to LCD adapter X26
71	I/O	I	No	TOUT0/ GPB0	10k pull-up to 3.3V	Connected to CPLD
72	I/O	I	No	TOUT1/ GPB1	10k pull-up to 3.3V	Connected to CPLD
73	I/O	0	No	TOUT2/ GPB2	Configured as output, 10k pull- up to 3.3V	connected to Audio Codec as L3MODE
74	I/O	I	No	TOUT3/ GPB3	Configured as input, pull-up enabled	connected to Audio Codec as L3DATA
75	I/O	SDCLK	No	SDCLK/ GPE5	SD-Interface, pull-up disabled	Connected to SD connector X29
76	I/O	SDCMD	No	SDCMD/ GPE6	10k pull-up on base board	Connected to SD connector X29
77	I/O	SDDATA 0	No	SDDATA0/ GPE7	10k pull-up on base board	Connected to SD connector X29
78	I/O	SDDATA	No	SDDATA1/ GPE8	10k pull-up on base board	Connected to SD connector X29
79	Р	-	-	GND		GND
80	I/O	SDDATA 2	No	SDDATA2/ GPE9	10k pull-up on base board	Connected to SD connector X29
81	I/O	SDDATA	No	SDDATA3/ GPE10	10k pull-up on base board	Connected to SD connector X29
82	I/O	I	No	EINT0/ GPF0	Configured as input, pull-up disabled	Connected to User Key1
83	-	-	-	NC		Not connected
84	I/O	0	No	EINT6/ GPF6	DEBUG LED	DEBUG LED
85	I/O	I	No	EINT11/ GPG3/SS1#	Configured as input, pull-up disabled	Connected to User Key2
86	I/O	EINT13	No	EINT13/ GPG5/SPIMISO 1	External Interrupt, pull-up enabled	Connected to CPLD
87	I/O	EINT14	No	EINT14/ GPG6/SPIMOSI 1	External Interrupt, pull-up enabled	Connected to CPLD
88	I/O	EINT15	No	EINT15/ GPG7/SPICLK1	External Interrupt, pull-up enabled	Connected to CPLD
89	I/O	SD_WP#	Yes	EINT17/ GPG9	Configured as input, pull-up disabled Write protect	Connected to SD connector X29
90	I/O	SD_CD#	Yes	EINT18/ GPG10	Configured as input, pull-up disabled Card detect	Connected to SD connector X29
91	-	-	-	NC		Not connected
92	0	-		OE#		Connected to CPLD



X1	Туре	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9M2410DEV
93	0	-		WE#	22R series resistor on module	Connected to CPLD
94	ı	-	No	WAIT#	Pullup 5k to +3.3V on module	Connected to CPLD
95	I/O	CS1#	No	CS1#/ GPA12	Chip select, not used on module, 22R series resistor on module, Defaults to Ouput/High at reset, can be redefined as I/O pin.	Connected to CPLD
96	I/O	CS2#	No	CS2#/ GPA13	Chip select, not used on module, 22R series resistor on module, Defaults to Ouput/High at reset, can be redefined as I/O pin.	Connected to CPLD
97	I/O	CS3#	No	CS3#/ GPA14	Chip select, not used on module, 22R series resistor on module, Defaults to Ouput/High at reset, can be redefined as I/O pin.	Connected to CPLD
98	I/O	CS4#	No	CS4#/ GPA15	Chip select, not used on module, 22R series resistor on module, Defaults to Ouput/High at reset, can be redefined as I/O pin.	Connected to CPLD
99	0	-	No	PWREN	1.8V power control signal 0 = Power for unneeded parts is switched off Must be left unconnected if not used.	Connected to CPLD
100	I	-	No	BATT_FLT#	Battery Fault Pullup 10k to +3.3V on module, can be left unconnected	Not used
101				NC		Connected to X28
102				NC		Connected to X28
103	0	-	No	DQM0	Upper Byte/Lower Byte Enable	Connected to CPLD
104	0	-	No	DQM1		Connected to CPLD
105	0	-	No	DQM2		Not used
106	0	-	No	DQM3		Not used
107	I/O	SS0#	No	SS0# GPG2/EINT10	SPI0, pull-up enabled	Not used
108	I/O	SPIMISO 0	No	SPIMISO0 GPE11	Pull-up enabled	Not used
109	I/O	SPIMOSI 0	No	SPIMOSI0 GPE12	Pull-up enabled	Not used
110	I/O	SPICLK0	No	SPICLK0 GPE13	Pull-up disabled	Not used
111		IICSCL	No	IICSCL GPE14	I ² C clock, Pullup 4k7 to 3.3V on module	used on module,
112		IICSDA	No	IICSDA GPE15	module	used on module
113	I/O	0	No	USB_DT/PW GPG0/EINT8	USB Detect/PowerEnable, by default set to output, pull-up enabled	output to switch on 1k5 pull-up resistor for USB device
114	I/O	USBP	YES	USBP	USB device, 22R series resistor has to be mounted on base board	USB device data line +, connected to X15
115	I/O	USBN	YES	USBN	USB device, 22R series resistor has to be mounted on base board	USB device data line -, connected to X15
116	Р	-	-	VRTC	Backup Battery for RTC, for 3V cell, power-switch-over is on the module, Can be left floating, if RTC backup not needed.	3V battery connected
117	Р	-	-	GND		GND
118 119	P	-	-	+3.3V VLIO	Mobile: Power from Li-Ion Battery Non-Mobile: connected to 3.3V	+3.3V Delivers either power from Li-Ion battery or 3.3V
120	Р	_	_	+3.3V	Tron Mobile. Confidence to 3.37	+3.3V
120		_	_	. J.U V	l .	· 0.0 v



Х2	Туре	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9M2410DEV
1	I/O	USBP0	Yes	USBP0	USB host0, 22R series resistor has to be mounted on base board	USB host data line +, connected to X14
2	Р	-	-	GND		GND
3	I/O	USBN0	Yes	USBN0	USB host0, 22R series resistor has to be mounted on base board	USB host data line -, connected to X14
4	0	A0	No	A0/GPA0	used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Connected to CPLD
5	0	-	No	A1	, , , , , , ,	Connected to CPLD
6	0	1	No	A2		Connected to CPLD
7	0	•	No	A3		Connected to CPLD
8	0	-	No	A4		Connected to CPLD
9	0	-	No	A5		Connected to CPLD
10	0	-	No	A6		Connected to CPLD
11	0	-	No	A7		Connected to CPLD
12	0	-	No	A8		Connected to CPLD
13	0	-	No	A9		Connected to CPLD
14	0	-		A10		Connected to CPLD
15	0	-	No	A11		Connected to CPLD
16	0	-		A12		Connected to CPLD
17	0	-	No	A13		Not used
18	0	-	No	A14		Not used
19 20	0	- A16	No No	A15 A16/GPA1	used as address of ETH-Contr.	Not used Not used
21	0	A17	No	A17/GPA2	on module, should not be used as I/O pin for compatibility used as address of ETH-Contr. on module, should not be used as I/O pin for	Not used
22	0	A18	No	A18/GPA3	compatibility used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Not used
23	0	A19	No	A19/GPA4	used as address of ETH-Contr. on module, should not be used as I/O pin for compatibility	Not used
24	0	A20	No	A20/GPA5	should not be used as I/O pin for compatibility	Not used
25	0	A21	No	A21/GPA6	should not be used as I/O pin for compatibility	
26	0	A22	No	A22/GPA7	should not be used as I/O pin for compatibility	
27	0	A23	No	A23/GPA8	should not be used as I/O pin for compatibility	
28	0	A24	No	A24/GPA9	should not be used as I/O pin for compatibility	
29	0	A25	No	A25/GPA10	should not be used as I/O pin for compatibility	
30	0	A26	No	A26/GPA11	should not be used as I/O pin for compatibility	
31	-	-	-	Reserved	(A27)	Not connected
32	-	-	-	Reserved	(A28)	Not connected
33	-	-	-	Reserved	(A29)	Not connected
34	-	-	-	Reserved	(A30)	Not connected
35	-	-	-	Reserved	(A31)	Not connected
36	I/O	ı	No	XDREQ0#/ GPB10	Configured as input, pull-up enabled	Not used
37	I/O	-	No	XDREQ1#/ GPB8	Configured as input, pull-up enabled	Not used
38	I/O	I	No	XDACK0#/ GPB9	Configured as input, pull-up enabled	Not used



Х2	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9M2410DEV
39	I/O	ļ	No	XDACK1#/ GPB7	Configured as input, pull-up enabled	Not used
40	Р	-	-	GND		GND
41	-	-	-	NC	_	Not connected
42	-	-	-	NC	-	Not connected
43	AI	-	No	AIN0	Analog in, unused analog inputs should be connected to AGND over a 10k series resistor to avoid cross over.	Not used
44	AI AI	-	No	AIN1 AIN2		Not used Not used
45 46	Al	-	No No	AIN3		Not used Not used
47	Al	_	No	AIN4	Used for touch screen TSYM	Connected to Touch screen connector X27
48	Al	-	No	AIN5	Used for touch screen TSYP	Connected to Touch screen connector X27
49	Al	-	No	AIN6	Used for touch screen TSXM	Connected to Touch screen connector X27
50	Al	-	No	AIN7	Used for touch screen TSXP	Connected to Touch screen connector X27
51	REF	-	No	AVCC	Analog VCC, Is the extra filtered +3.3V, connected with the AVCC ball of the CPU Can be used as an analog reference, do not connect to any other power source.	Not used
52	REF	-	No	AGND	Analog GND, Is the extra filtered GND, connected with the AGND ball of the CPU, Can be used as an analog reference, do not connect to any other power source.	Connected to Touch screen connector X27
53	I/O	XPON#	No	XPON#/ GPG13/EINT21	Touch Screen, pull-up disabled	Used for touch screen
54	I/O	XMON	No	XMON/ GPG12/EINT20	pull-up disabled	Used for touch screen
55	I/O	YPON#	No	YPON#/ GPG15/EINT23	pull-up disabled	Used for touch screen
56	I/O	YMON	No	YMON/ GPG14/EINT22	pull-up disabled	Used for touch screen
57	I/O	I	No	XBREQ#/ GPB6	Configured as input, pull-up enabled	Not used
58	I/O	I	No	XBACK#/ GPB5	Configured as input, pull-up enabled	Not used
59	I/O	l	Yes	USBH0PEN/ GPG8/EINT16	USB host0 Power Enable	USB host: input to recognize current limit from connected device
60	-	-	NC			Not connected
61	1/0	I2SSDO	No	I2SSDO/ GPE4/I2SSDI	I2S-Interface, pull-up disabled	Connected to Audio Codec
62	I/O	I2SSDI	No	I2SSDI/ GPE3/SS0#	pull-up disabled	Connected to Audio Codec
63	I/O	CDCLK	No	CDCLK/ GPE2	pull-up disabled	Connected to Audio Codec
64	I/O	I2SSCLK	No	I2SSCLK/ GPE1	pull-up disabled	Connected to Audio Codec
65	I/O	I2SLRCK	No	I2SLRCK/ GPE0	pull-up disabled	Connected to Audio Codec
66	I	-	No	TPIN	Ethernet 0 Input-, 100R differential termination on module	Connected to RJ45 with integrated magnetics
67	0	-	No	LEDLNK	Ethernet 0 Line/Activity LED High, when link ok Low, while active.	Connected to Link/Activity LED
68	ı	-	No	TPIP	Ethernet 0 Input+,	Connected to RJ45



X2	Type	U-Boot	5V tol.	A9M2410 Name	A9M2410 Description	Application A9M2410DEV
					100R differential termination on module	with integrated magnetics
69	0	_	No	not used	reserved for high speed LED	Not connected
70	0	_	No	TPON	Ethernet 0 Output-,	Connected to RJ45
70	O	_	NO	III ON	100R differential termination on module	with integrated magnetics
71	I	-	No	not used		Not connected
72	0	-	No	TPOP	Ethernet 0 Output+,	Connected to RJ45
					100R differential termination on module	with integrated magnetics
73	Р	-		Not used		Not connected
74	-	-	-	Reserved		Not connected
75	-	-	-	Reserved		Not connected
76	-	-	-	Reserved		Not connected
77 78	-	-	-	Reserved Reserved		Not connected Not connected
79	-	-	-	Reserved		Not connected
80	- P	-	-	GND		GND
81	1/0	_	No	D0	Data Bus	Connected to CPLD
82	1/0	-	No	D1		Connected to CPLD
83	I/O	-	No	D2		Connected to CPLD
84	I/O	-	No	D3		Connected to CPLD
85	I/O	-	No	D4		Connected to CPLD
86	I/O	-	No	D5		Connected to CPLD
87	I/O	-	No	D6		Connected to CPLD
88	I/O	-	No	D7		Connected to CPLD
89	I/O	-	No	D8		Connected to CPLD
90	1/0	-	No	D9		Connected to CPLD
91	I/O	-	No	D10		Connected to CPLD
92 93	I/O I/O	-	No No	D11 D12		Connected to CPLD
93	1/0	-	No	D12		Connected to CPLD Connected to CPLD
95	1/0	-	No	D13		Connected to CPLD
96	1/0	_	No	D15		Connected to CPLD
97	I/O	_	No	D16		Not used
98	I/O	-	No	D17		Not used
99	I/O	-	No	D18		Not used
100	I/O	-	No	D19		Not used
101	I/O	-	No	D20		Not used
102	I/O	-	No	D21		Not used
103	I/O	-	No	D22		Not used
104	1/0	-	No	D23		Not used
105	1/0	-	No	D24		Not used
106 107	I/O I/O	-	No No	D25 D26		Not used Not used
107	1/0	-	No	D26 D27		Not used Not used
109	I/O	_	No	D28		Not used
110	I/O	-	No	D29		Not used
111	I/O	-	No	D30		Not used
112	I/O	-	No	D31		Not used
113	I/O	0	No	TCLK0/ GPB4	Configured as output, pull-up enabled	connected to Audio Codec as L3CLOCK
114	I/O	I	No	TCLK1/ GPG11/EINT19	Configured as input, pull-up enabled	Not used
115	-	-	-	NC	-	Not connected
116	0	CLKOUT 1	No	CLKOUT1/ GPH10	Clock output, unbuffered CLKOUT1 signal, 22R series resistor on module	Connected to CPLD via 0R but 0R resistor not equipped
117	-	-	-	NC	-	Connected to CAN driver
118	-	-	-	NC	-	Connected to CAN driver
119	0	CLKOUT 0	No	BCLKOUT0/ GPH9	Clock output, buffered CLKOUT0 signal	
120	Р	-	-	GND	-	GND

