

IDO-SOM2708-S1 核心板规格书

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IDO-SOM2708-S1

核心板规格书

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文档修订历史

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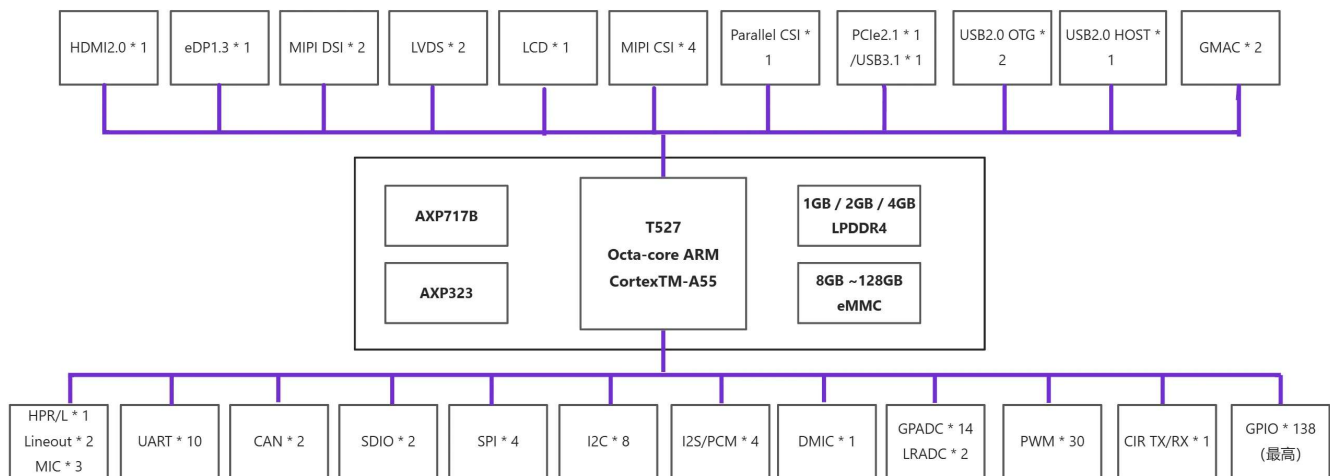
1. 产品概述

IDO-SOM2708-S1核心板是基于全志T527系列高性能处理器开发设计的核心板；T527集成了8个ARM Cortex-A55高性能核，包括4个Cortex-A55@1.8GHz和4个Cortex-A55@1.4GHz。同时内置1个RISC-V核和1个DSP核，1个ARM G57 MC1 GPU，具备H.264，4K@25fps的硬编码及H.265，4K@60fps高清硬解码的能力，支持2TOPS算力的NPU，为您的AI应用赋能。



IDO-SOM2708-S1核心板进行了严格的电源完整性和信号完整性仿真设计，通过各项电磁兼容、温度冲击、高温高湿老化、长时间存储压力等测试，稳定可靠，批量供货。用户仅需设计外围电路

即可快速实现项目的稳定量产，IDO-SOM2708-S1模块逻辑框图，如下图所示：



1.1 产品特点

1. 处理器采用8核A55 22nm 先进制程工艺；
2. 5种显示接口：HDMI、eDP、LVDS、MIPI DSI、RGB，支持4K+1080P双屏异显；
3. 丰富的总线接口：2*GMAC、2*CAN、PCIe2.1/USB3.1、3*USB2.0、10*UART、30*PWM、4*SPI、8*I2C等；
4. 核心板支持 100%全国产。

1.2 产品图片

IDO-SOM2708-S1核心板正面，如下图所示：



IDO-SOM2708-S1核心板背面，如下图所示：



1.3 适用场景

IDO-SOM2708-S1采用全志高性能SOC芯片T527，T527在智能工控领域和汽车领域的一款高性能嵌入式处理器。适用于高性能工业机器人、工业HMI、边缘计算工业自动化和电力能源储能网关等领

域等应用。

2. 硬件参数规格

2.1 基本参数

基本参数如下图所示：

基本参数	
SOC	Allwinner T527M02X0DCH
CPU	T527M02X0DCH, 8核 ARM CortexTM-A55@1.8GHz
DSP	HIFI4 Audio DSP@600MHz
RISC	RISC-V@200MHz
GPU	GPU G57 MC1
VPU	H.265 4K@60fps解码 H.264 4K@60fps解码 H.264 4K@25fps编码
NPU	NPU 2Tops (INT8)
内存	2GB / 4GB LPDDR4/4X
存储	16GB / 32GB /64GB / 128GB eMMC
硬件参数	
显示	1 x HDMI2.0 (支持 2D 显示 4K@60fps, 3D 显示 4K@30fps, 3D 显示 4K@30fps) 1 x eDP1.3 (支持 2.5K@60fps 和 4K@30fps) 2 x MIPI DSI (支持4-lane MIPI DSI, 1280×720@60fps, 1920×1200@60fps) (支持4+4lane MIPI DSI, 2560×1600@fps, 3840×2160@45fps, 4096×2160@45fps) 1 x LVDS (支持 dual link 1920×1080@60fps, single link1366×768@60fps) 1 x LCD (RGB666 18 位 核心板可最高支持 RGB888 24 位, 最高 1080P@60fps) 支持双屏异显

MIPI CSI	4 x MIPI CSI 支持8M@30fps RAW12 2F-WDR, 最大尺寸 3264(H)×2448(V) 支持组合 4+4-lane, 4+2+2-lane, or 2+2+2+2-lane
Parallel CSI	1 x Parallel CSI 支持 8/10/12/16-bit 位宽 支持 ITU-R BT.656 up to 4*720P@30fps 支持 ITU-R BT.1120 up to 4*1080P@30fps
PCIe2.1/USB 3.1	1 x PCIe2.1 (仅支持 RC 模式, 1-lane, 5Gbp) 1 x USB3.1 (DRD mode, 5 Gbit/s) PCIe2.1/USB 3.1 复用功能/二选一
USB 2.0	2 x USB2.0 OTG 1 x USB2.0 HOST
Ethernet	2 x GMAC 支持 RMII/RGMII 接口, 支持速率 10/100/1000Mbit/s
Audio	1 x HDMI 1 x HPR/L 2 x Lineout 3 x Mic
UART	10 x UART 2 x CAN 2 x SDIO 4 x SPI 8 x I2C 4 x I2S/PCM 1 x DMIC 14 x GPADC 2 x LRADC 30 x PWM 1 x CIR TX/RX 138 x GPIO (最高, 引脚与其它功能存在复用)
其他	
主板尺寸	4.5cm * 4.0cm * 0.3cm

接口类型	162Pin 间距1.0mm邮票孔 LCC+164Pin LGA
工作电压	DC 5V
工作温度	-25℃ ~ +80℃ (宽温级) -40℃ ~ +85℃ (工业级)
PCB规格	板厚 1.5mm , 10层板 高Tg材质, 沉金工艺

2.2 工作环境

工作环境如下表所示：

工作环境	
工作温度	-25℃ ~ +80℃ (宽温级) -40℃ ~ +85℃ (工业级)
存储温度	-40℃ ~ +85℃

2.3 系统支持

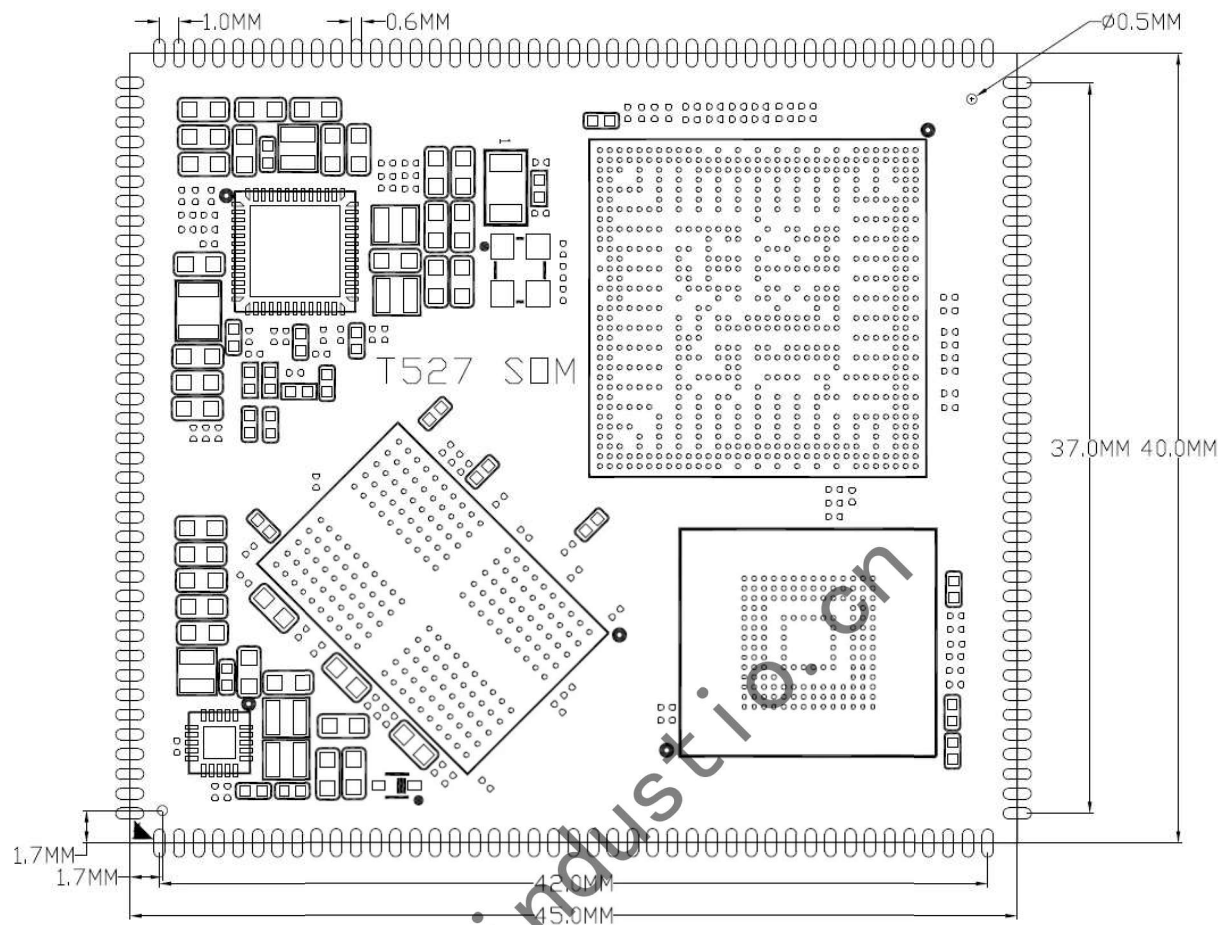
系统支持如下表所示：

序号	操作系统	支持	说明
1	Android	✓	/
2	Debian	✓	/
3	Ubuntu	✓	/
4	OpenHarmony	✓	/

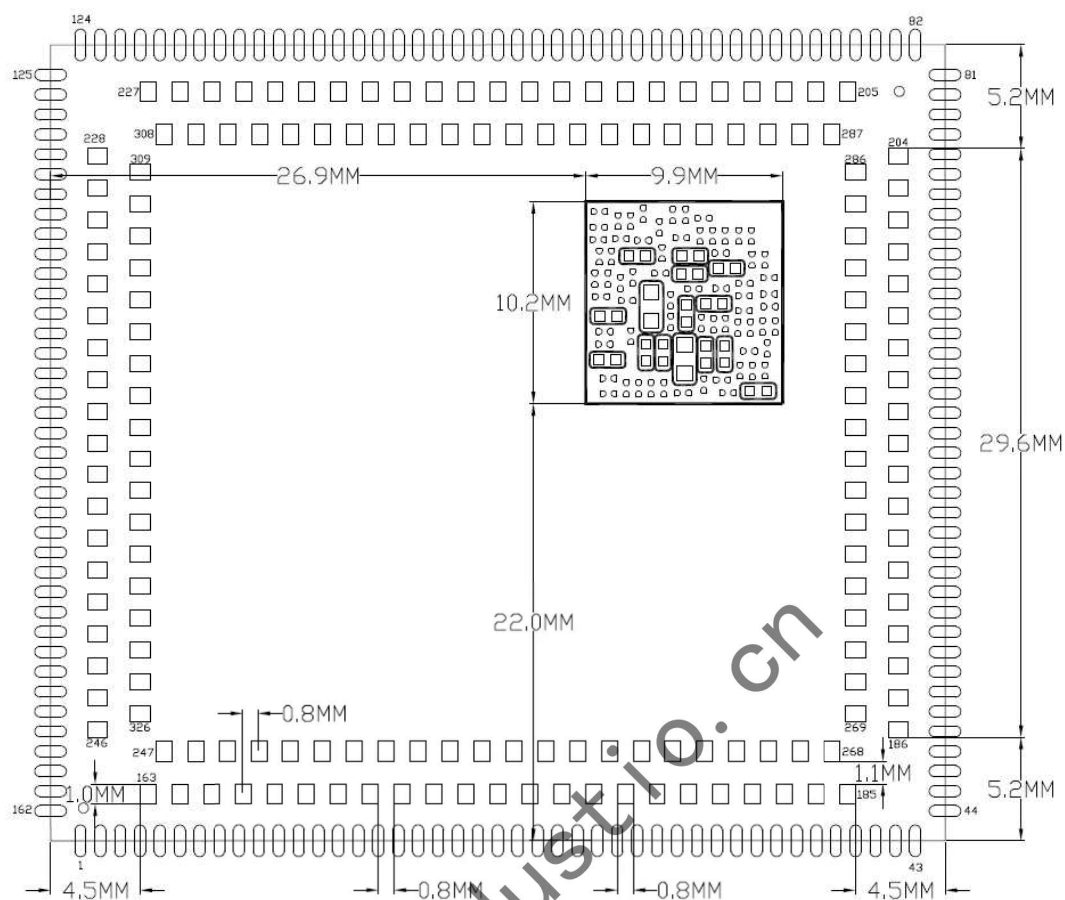
3. PCB 尺寸和电气参数

3.1 PCB尺寸

IDO-SOM2708-S1核心板正面尺寸，如下表所示：



IDO-SOM2708-S1核心板背面尺寸，如下图所示：



3.2 电气参数

3.2.1 电源输入

电源输入如下表所示：

电源名称	最小电压	标称值	最大电压	峰值电流	待机电流	关机电流
VCC5V_IN	4.5V	5.0V	5.2V	/	/	<1mA

电源名称	最小电压	最大电压	最大电流	备注
VCC-PE-IN	1.75V	3.4V	50mA	PE组IO电源域电压， 1.8V/3.3V 二选一

VCC-PK-IN	1.75V	3.4V	50mA	PK组IO电源域电压, 1.8V/3.3V 二选一
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3.2.2 电源输出

电源输入如下表所示：

电源名称	最小电压	标称值	最大电压	限制电流
VCC1V8_OUT_S3	1.75V	1.8V	1.85V	100mA
VCC3V3_OUT_S0	3.2V	3.3V	3.4V	100mA
VCC-CARD-OUT	3.2V	3.3V	3.4V	400mA

4. 采购型号

采购型号如下表所示：

采购型号	LPDDR4/4X	eMMC	标称工作温度
IDO-SOM2708-S1-D2E16	2GB	16GB	-25℃ ~ +80℃
IDO-SOM2708-S1-D4E32	4GB	32GB	-25℃ ~ +80℃
IDO-SOM2708-S1-D2E16-I	2GB	16GB	-40℃ ~ +85℃
IDO-SOM2708-S1-D4E32-I	4GB	32GB	-40℃ ~ +85℃

5. 引脚定义说明

5.1 核心板引脚示意图

172	PB0/UART2-TX/SPI2-CS0/JTAG-MS/LCD0-D0/PWM-8/PB-EINT0	Port B IO 3V3
171	PB1/UART2-RX/SPI2-CLK/JTAG-CK/LCD0-D1/PWM-7/PB-EINT1	
170	PB2/UART2-RTS/SPI2-MOSI/JTAG-DO/LCD0-D8/CAN-RX0/PB-EINT2	
169	PB3/UART2-CTS/SPI2-MISO/JTAG-DI/LCD0-D9/CAN-RX0/PB-EINT3	
168	PB4/TWI1-SCK/I2S0-MCLK/TRACE-DATA2/PWM-8/HDMI-SCL/PB-EINT4	
167	PB5/TWI1-SDA/I2S0-SCLK/TRACE-CLK/PWM-9/HDMI-SDA/PB-EINT5	
166	PB6/I2S0-LRCK/TRACE-DATA0/PWM-10/HDMI-CEC/PB-EINT6	
165	PB7/OWA-IN/I2S0-DOUT0/I2S0-DIN1/LCD0-D16/PWM-11/PB-EINT7	
164	PB8/OWA-OUT/I2S0-DIN0/I2S0-DOUT1/LCD0-D17/PWM-0/PB-EINT8	
163	PB9/UART0-TX-DEBUG/TWI0-SCK/TRACE-DATA1/I2S0-DIN2/I2S0-DOUT2/PB-EINT9	
162	PB10/UART0-RX-DEBUG/TWI0-SDA/PWM-1/I2S0-DIN3/I2S0-DOUT3/PB-EINT10	
161	PB11/TWI5-SCK/UART7-RTS/SPI1-CS0/PWM-2/PB-EINT11	
160	PB12/TWI5-SDA/UART7-CTS/SPI1-CLK/PWM-3/PB-EINT12	
159	PB13/TWI4-SCK/UART7-TX/SPI1-MOSI/PWM-4/PB-EINT13	
158	PB14/TWI4-SDA/UART7-RX/SPI1-MISO/PWM-5/PB-EINT14	
253	PC2/NAND-CLE/SPI0-MOSI/SPIF-MOSI/PC-EINT2	Port C CLD01 IO 1V8
252	PC3/NAND-CE1/SPI0-CS0/SPIF-CS0/PC-EINT3	
251	PC4/NAND-CE0/SPI0-MISO/SPIF-MISO/PC-EINT4	
250	PC7/NAND-RB1/SPI0-CS1/SPIF-DQS/PC-EINT7	
249	PC12/NAND-DQS/SPI0-CLK/SPIF-CLK/PC-EINT12	
27	PD0/LCD0-D2/LVDS0-D0P/DSI0-D0P/PWM-0/PD-EINT0	Port D DCDC4 IO 3V3
26	PD1/LCD0-D3/LVDS0-D0N/DSI0-D0N/PWM-1/PD-EINT1	
25	PD2/LCD0-D4/LVDS0-D1P/DSI0-D1P/PWM-2/PD-EINT2	
24	PD3/LCD0-D5/LVDS0-D1N/DSI0-D1N/PWM-3/PD-EINT3	
23	PD4/LCD0-D6/LVDS0-D2P/DSI0-D2P/PWM-4/PD-EINT4	
22	PD5/LCD0-D7/LVDS0-D2N/DSI0-D2N/PWM-5/PD-EINT5	
21	PD6/LCD0-D10/LVDS0-CKP/DSI0-D2P/PWM-6/PD-EINT6	
20	PD7/LCD0-D11/LVDS0-CKN/DSI0-D2N/PWM-7/PD-EINT7	
19	PD8/LCD0-D12/LVDS0-D3P/DSI0-D3P/PWM-8/PD-EINT8	
18	PD9/LCD0-D13/LVDS0-D3N/DSI0-D3N/PWM-9/PD-EINT9	
16	PD10/LCD0-D14/LVDS1-D0P/DSI1-D0P/PWM-10/SPI1-CS0/DBI-CSX/PD-EINT10	
15	PD11/LCD0-D15/LVDS1-D0N/DSI1-D0N/PWM-11/SPI1-CLK/DBI-SCLK/PD-EINT11	
14	PD12/LCD0-D18/LVDS1-D1P/DSI1-D1P/PWM-12/SPI1-MOSI/DBI-SDO/PD-EINT12	
13	PD13/LCD0-D19/LVDS1-D1N/DSI1-D1N/PWM-13/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/PD-EINT13	
12	PD14/LCD0-D20/LVDS1-D2P/DSI1-D2P/PWM-14/UART3-TX/PD-EINT14	
11	PD15/LCD0-D21/LVDS1-D2N/DSI1-D2N/PWM-15/UART3-RX/PD-EINT15	
10	PD16/LCD0-D22/LVDS1-CKP/DSI1-D2P/PWM-16/UART3-RTS/PD-EINT16	
9	PD17/LCD0-D23/LVDS1-CKN/DSI1-D2N/PWM-17/UART3-CTS/PD-EINT17	
8	PD18/LCD0-CLK/LVDS1-D3P/DSI1-D3P/PWM-18/UART4-TX/PD-EINT18	
7	PD19/LCD0-DE/LVDS1-D3N/DSI1-D3N/PWM-19/UART4-RX/PD-EINT19	
5	PD20/LCD0-HSYNC/PWM-2/UART2-TX/UART7-RTS/UART4-RTS/PD-EINT20	
4	PD21/LCD0-VSYNC/PWM-3/UART2-RX/UART7-CTS/UART4-CTS/PD-EINT21	
3	PD22/PWM-1/SPI1-HOLD/DBI-DCX/DBI-WRX/UART2-RTS/UART4-TX/TWI0-SCK/PD-EINT22	
2	PD23/PWM-0/SPI1-WP/DBI-TE/UART2-CTS/UART7-RX/TWI0-SDA/PD-EINT23	

205	PE0/MCSIA-MCLK/PE-EINT0	
206	PE1/MCSIA-SCK/TWI2-SCK/UART4-TX/PE-EINT1	
207	PE2/MCSIA-SDA/TWI2-SDA/UART4-RX/PE-EINT2	
208	PE3/MCSIC-SCK/TWI3-SCK/UART4-RTS/PE-EINT3	
209	PE4/MCSIC-SDA/TWI3-SDA/UART4-CTS/PE-EINT4	
206	PE5/MCSIB-MCLK/PLL-LOCK-DBG/I2S2-MCLK/LEDC/PE-EINT5	Port E
84	PE6/I2S2-BCLK/LCD0-TRIG/NCSI-D8/PE-EINT6	VCC-PE-IN
85	PE7/I2S2-LRCK/LCD1-TRIG/NCSI-D9/PE-EINT7	
86	PE8/I2S2-DOUT0/LCD2-TRIG/NCSI-D10/PE-EINT8	
87	PE9/I2S2-DIN0/NCSI-D11/PE-EINT9	
88	PE10/MCSID-MCLK/PWM-3/NCSI-D12/PE-EINT10	
89	PE11/TWI1-SCK/UART5-RTS/SPI2-CS0/UART6-TX/NCSI-D13/PE-EINT11	
90	PE12/TWI1-SDA/UART5-CTS/SPI2-CLK/UART6-RX/NCSI-D14/PE-EINT12	
92	PE13/TWI4-SCK/UART5-TX/SPI2-MOSI/UART6-RTS/CSIO-XVS-FSYNC/PE-EINT13	
91	PE14/TWI4-SDA/UART5-RX/SPI2-MISO/UART6-CTS/CSIO-XVS-FSYNC/PE-EINT14	
288	PE15/MCSIC-MCLK/PWM-2/NCSI-D15/PE-EINT15	
83	VCC-PE-IN	
59	PF0/SDC0-D1/JTAG-MS/TRACE-DATA2/I2S3-DIN0/I2S3-DOUT1/PF-EINT0	
60	PF1/SDC0-D0/JTAG-DI/TRACE-DATA1/I2S3-DOUT0/I2S3-DIN1/PF-EINT1	
61	PF2/SDC0-CLK/UART0-TX/I2S3-DIN2/I2S3-DOUT2/PF-EINT2	Port F
63	PF3/SDC0-CMD/JTAG-DO/TRACE-DATA0/I2S3-LRCK/PF-EINT3	IO 3V3
64	PF4/SDC0-D3/UART0-RX/I2S3-DIN3/I2S3-DOUT3/PF-EINT4	
65	PF5/SDC0-D2/JTAG-CK/TRACE-CLK/I2S3-BCLK/PF-EINT5	
58	PF6/SDC0-DET/I2S3-MCLK/PF-EINT6	
62	VCC-CARD-OUT	
113	PG0/SDC1-CLK/PG-EINT0	
112	PG1/SDC1-CMD/PG-EINT1	
111	PG2/SDC1-D0/PCIE0-PERSTN/PG-EINT2	
110	PG3/SDC1-D1/PCIE0-WAKEN/PG-EINT3	
109	PG4/SDC1-D2/PCIE0-CLKREQN/PG-EINT4	
108	PG5/SDC1-D3/PG-EINT5	
107	PG6/UART1-TX/PG-EINT6	Port G
106	PG7/UART1-RX/PG-EINT7	BLD01 S3
105	PG8/UART1-RTS/PG-EINT8	IO 1V8
104	PG9/UART1-CTS/PG-EINT9	
221	PG10/I2S1-MCLK/PG-EINT10	
220	PG11/BT-PCM-CLK/I2S1-BCLK/PG-EINT11	
219	PG12/BT-PCM-SYNC/I2S1-LRCK/PG-EINT12	
218	PG13/BT-PCM-DOUT/I2S1-DOUT0/I2S1-DIN1/PG-EINT13	
217	PG14/BT-PCM-DIN/I2S1-DIN0/I2S1-DOUT1/PG-EINT14	
192	PH0/TWI0-SCK/RGMII0-RXD1/RMII0-RXD1/PH-EINT0	
193	PH1/TWI0-SDA/RGMII0-RXD0/RMII0-RXD0/PH-EINT1	
194	PH2/TWI1-SCK/CPU-CUR-W/I2S2-DIN3/RGMII0-RXCTL/RMII0-CRS-DV/I2S2-DOUT3/PH-EINT2	
274	PH3/TWI1-SDA/IR-TX/I2S2-DIN2/RGMII0-CLKIN/RMII0-RPER/I2S2-DOUT2/PH-EINT3	
271	PH4/UART3-TX/SPI1-CS0/CPU-CUR-W/RGMII0-TXD0/RMII0-RXD1/PH-EINT4	
275	PH5/UART3-RX/SPI1-CLK/LEDC/RGMII0-TXD0/RMII0-TXD0/PH-EINT5	
273	PH6/UART3-RTS/SPI1-MOSI/OWA-IN/RGMII0-TXD1/RMII0-TXCK/PH-EINT6	
276	PH7/UART3-CTS/SPI1-MISO/OWA-OUT/RGMII0-TXD1/RMII0-TXEN/PH-EINT7	Port H
196	PH8/PHYRSTB/DMIC-CLK/SPI2-CS0/I2S2-MCLK/I2S2-DIN2/PH-EINT8	CLD03
278	PH9/DMIC-DATA0/SPI2-CLK/I2S2-BCLK/RGMII0-MDC/PH-EINT9	IO 3V3
277	PH10/DMIC-DATA1/SPI2-MOSI/I2S2-LRCK/RGMII0-MDIO/PH-EINT10	
187	PH11/PCIE21-PERSTn/DMIC-DATA2/SPI2-MISO/I2S2-DOUT0/I2S2-DIN1/PCIE0-PERSTN/PH-EINT11	
186	PH12/PCIE21-WAKEn/DMIC-DATA3/TWI3-SCK/I2S2-DIN0/I2S2-DOUT1/PCIE0-WAKEN/PH-EINT12	
195	PH13/TWI3-SDA/I2S3-MCLK/RGMII0-EPHY-25M/PH-EINT13	
189	PH14/I2S3-BCLK/RGMII0-RXD0/RMII0-NUL/PH-EINT14	
190	PH15/I2S3-LRCK/RGMII0-RXD1/RMII0-NUL/PH-EINT15	
191	PH16/I2S3-DOUT0/I2S3-DIN1/RGMII0-RXCK/RMII0-NUL/CLK-FANOUT0/PH-EINT16	
270	PH17/I2S3-DOUT1/I2S3-DIN2/RGMII0-TXD3/RMII0-NUL/PH-EINT17	
272	PH18/IR-TX/I2S3-DOUT2/I2S3-DIN2/RGMII0-TXD2/RMII0-NUL/PH-EINT18	
188	PH19/PCIE21-CLKREQN/IR-RX/I2S3-DOUT3/I2S3-DIN3/LEDC/PCIE0-CLKREQN/PH-EINT19	
145	PI0/TWI4-SCK/UART4-TX/PWM-1/I2S2-DIN3/I2S2-DOUT3/PI-EINT0	
146	PI1/TWI4-SDA/UART4-RX/PWM-2/I2S2-DIN2/I2S2-DOUT2/PI-EINT1	
147	PI2/UART5-TX/SPI1-CS0/PWM-3/I2S2-BCLK/PI-EINT2	
148	PI3/UART5-RX/SPI1-CLK/PWM-4/I2S2-LRCK/PI-EINT3	
149	PI4/UART5-RTS/SPI1-MOSI/PWM-5/I2S2-DOUT0/I2S2-DIN1/PI-EINT4	
150	PI5/UART5-CTS/SPI1-MISO/PWM-6/I2S2-DIN0/I2S2-DOUT1/PI-EINT5	
151	PI6/UART6-TX/UART4-RTS/PWM-7/SPI2-CS0/PI-EINT6	Port I
152	PI7/UART6-RX/UART4-CTS/PWM-8/SPI2-CLK/PI-EINT7	DCDC4
153	PI8/TWI5-SCK/IR-RX/PWM-9/SPI2-MOSI/PI-EINT8	IO 3V3
154	PI9/TWI5-SDA/DMIC-DATA2/PWM-10/PI-EINT9	
155	PI10/OWA-OUT/DMIC-DATA1/PWM-11/I2S2-MCLK/PI-EINT10	
156	PI11/UART3-TX/DMIC-DATA0/PWM-12/PI-EINT11	
157	PI12/UART3-RX/PWM-13/SPI2-MISO/PI-EINT12	
158	PI13/UART6-CTS/DMIC-DATA3/PWM-14/I2S2-MCLK/PI-EINT13	
159	PI14/UART6-RTS/DMIC-CLK/PWM-15/PI-EINT14	
160	PI15/UART3-RTS/TWI2-SCK/PWM-16/CAN-TX0/PI-EINT15	
161	PI16/UART3-CTS/TWI2-SDA/PWM-17/CAN-RX0/PI-EINT16	

95	PJ0/LCD1-D0/LVDS2-D0P/RGMII1-RXD1/RMII1-RXD1/PJ-EINT0	
96	PJ1/LCD1-D1/LVDS2-D0N/RGMII1-RXD0/RMII1-RXD0/PJ-EINT1	
97	PJ2/LCD1-D2/LVDS2-D1P/RGMII1-RXCTL/RMII1-CRS-DV/PJ-EINT2	
98	PJ3/LCD1-D3/LVDS2-D1N/RGMII1-CLKIN/RMII1-RXER/PJ-EINT3	
99	PJ4/LCD1-D4/LVDS2-D2P/RGMII1-TXD1/RMII1-TXD1/PJ-EINT4	
100	PJ5/LCD1-D5/LVDS2-D2N/RGMII1-TXD0/RMII1-TXD0/PJ-EINT5	
101	PJ6/LCD1-D6/LVDS2-CKP/RGMII1-TXCK/RMII1-TXCK/PJ-EINT6	
102	PJ7/LCD1-D7/LVDS2-CKN/RGMII1-TXCTL/RMII1-TXEN/PJ-EINT7	
103	PJ8/LCD1-D8/LVDS2-D3P/RGMII1-MDC/PJ-EINT8	
104	PJ9/LCD1-D9/LVDS2-D3N/RGMII1-MDIO/PJ-EINT9	
215	PJ10/LCD1-D10/LVDS3-D0P/RGMII1-EPHY-25M/PJ-EINT10	
216	PJ11/LCD1-D11/LVDS3-D0N/RGMII1-RXD3/RMII1-NUL/PJ-EINT11	
217	PJ12/LCD1-D12/LVDS3-D1P/RGMII1-RXD2/RMII1-NUL/PJ-EINT12	
218	PJ13/LCD1-D13/LVDS3-D1N/RGMII1-RXCK/RMII1-NUL/PJ-EINT13	
219	PJ14/LCD1-D14/LVDS3-D2P/RGMII1-TXD3/RMII1-NUL/PJ-EINT14	
220	PJ15/LCD1-D15/LVDS3-D2N/RGMII1-TXD2/RMII1-NUL/PJ-EINT15	
221	PJ16/LCD1-D16/LVDS3-CKP/PJ-EINT16	
222	PJ17/LCD1-D17/LVDS3-CKN/PJ-EINT17	
223	PJ18/LCD1-D18/LVDS3-D3P/PJ-EINT18	
224	PJ19/LCD1-D19/LVDS3-D3N/PJ-EINT19	
303	PJ20/LCD1-D20/UART2-TX/UART3-RTS/SPI0-CS0/PJ-EINT20	
304	PJ21/LCD1-D21/UART2-RX/UART3-CTS/SPI0-CLK/PJ-EINT21	
305	PJ22/LCD1-D22/UART2-RTS/UART3-TX/SPI0-MOSI/PJ-EINT22	
306	PJ23/LCD1-D23/UART2-CTS/UART3-RX/SPI0-MISO/PJ-EINT23	
307	PJ24/LCD1-CLK/TWI4-SCK/UART4-TX/SPI0-CS1/PJ-EINT24	
308	PJ25/LCD1-DE/TWI4-SDA/UART4-RX/SPI0-WP/PJ-EINT25	
309	PJ26/LCD1-HSYNC/TWI5-SCK/UART4-RTS/SPI0-HOLD/PJ-EINT26	
310	PJ27/LCD1-VSYNC/TWI5-SDA/UART4-CTS/PJ-EINT27	

Port J
DCDC4
IO 3V3

POWER	VCC5V_IN	129
	VCC5V_IN	130
	VCC1V8_OUT_S3	81
	VCC3V3_OUT_S0	82
SYSTEM	FEL-KEY	67
	AP-RST-KEY	134
	POWERON	135
	JTAG-SEL	184
	AP-CK32K-OUT	128
	AP-CK24M-OUT	310
	WREQIN	311
KEY 0-1V35 6bit	LRADC0	136
	LRADC1	137
GPADC 0-1V8 12bit	GPADC3	138
	GPADC4	139
	GPADC5	140
	GPADC6	141
	GPADC7	142
	GPADC8	143
	GPADC9	230
	GPADC10	231
	GPADC11	232
	GPADC12	233
	GPADC13	234
	GPADC14	235
	GPADC15	236
	GPADC16	237
	GPADC17	313
	GPADC18	314
	GPADC19	315
	GPADC20	316
	GPADC21	317
	GPADC22	318
	GPADC23	319

AUDIO	MBIAS	120
	MICIN1N	119
	MICIN1P	118
	MICIN2N	308
	MICIN2P	307
	MICIN3N	306
	MICIN3P	305
	LINEOUTLP	226
	LINEOUTLN	225
	LINEOUTRP	224
	LINEOUTRN	223
	HPOUTR	116
	HPOUTFB	117
	HPOUTL	115
	HP-DET	114
eDP1.3 2.5K@60Hz	EDP-TX0P	181
	EDP-TX0N	180
	EDP-TX1P	179
	EDP-TX1N	178
	EDP-TX2P	267
	EDP-TX2N	266
	EDP-TX3P	265
	EDP-TX3N	264
	EDP-AUXP	177
	EDP-AUXN	176
HDMI2.0 TX 3840X2160@60Hz	EDP-HPD	183
	HTX0P	42
	HTX0N	41
	HTX1P	40
	HTX1N	39
	HTX2P	38
	HTX2N	37
	HTXCP	36
	HTXCN	34
	HSCL	32
	HSDA	31
	HCEC	30
	HHPD	29

AUDIO	MBIAS	120
	MICIN1N	119
	MICIN1P	118
	MICIN2N	308
	MICIN2P	307
	MICIN3N	306
	MICIN3P	305
	LINEOUTLP	226
	LINEOUTLN	225
	LINEOUTRP	224
	LINEOUTRN	223
	HPOUTR	116
	HPOUTFB	117
	HPOUTL	115
	HP-DET	114
eDP1.3 2.5K@60Hz	EDP-TX0P	181
	EDP-TX0N	180
	EDP-TX1P	179
	EDP-TX1N	178
	EDP-TX2P	267
	EDP-TX2N	266
	EDP-TX3P	265
	EDP-TX3N	264
	EDP-AUXP	177
	EDP-AUXN	176
HDMI2.0 TX 3840X2160@60Hz	EDP-HPD	183
	HTX0P	42
	HTX0N	41
	HTX1P	40
	HTX1N	39
	HTX2P	38
	HTX2N	37
	HTXCP	36
	HTXCN	34
	HSCL	32
	HSDA	31
	HCEC	30
	HHPD	29

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	USB1-DM-HOST	55
	USB1-DP-HOST	54
	USB2-DM-OTG	53
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	PCIE-TX0-DP/USB3-TXP	50
	PCIE-TX0-DN/USB3-TXN	49
	PCIE-RX0-DP/USB3-RXP	48
	PCIE-RX0-DN/USB3-RXN	47
Port M BLD01 S3 IO 1V8	PCIE21-REFCLKP	46
	PCIE21-REFCLKN	45
	PM0/WL-WAKE-AP/S-UART0-TX/S-UART1-TX/S-PWM-2/S-PM-EINT0	127
	PM1/WL-REG-ON/S-UART0-RX/S-UART1-RX/S-PWM-3/S-PM-EINT1	126
	PM2/BT-RESETN/S-TWI1-SCK/S-RJTAG-MS/S-PWM-5/S-PM-EINT2	125
Port L ALD03 S3 IO 3V3	PM3/AP-WAKE-BT/S-TWI1-SDA/S-RJTAG-CK/S-PWM-7/S-PM-EINT3	124
	PM4/BT-WAKE-AP/S-PWM-8/S-RJTAG-DO/S-TWI2-SCK/S-PM-EINT4	123
	PM5/USB0-VBUSDET/S-IR-RX/S-RJTAG-DI/S-TWI2-SDA/S-PWM-9/S-PM-EINT5	122
	PL2/S-UART0-TX-DEBUG/S-UART1-TX/S-PWM-2/S-PL-EINT2	239
	PL3/S-UART0-RX-DEBUG/S-UART1-RX/S-PWM-3/S-PL-EINT3	240
Port K VCC-PK-IN	PL4/S-JTAG-MS/S-CAN-TX0/S-PWM-4/I2S0-BCLK/S-PL-EINT4	241
	PL5/S-JTAG-CK/S-CAN-RX0/S-PWM-5/I2S0-LRCK/DMIC-DATA3/S-PL-EINT5	242
	PL6/S-JTAG-DO/S-PWM-6/I2S0-DIN1/I2S0-DOUT0/DMIC-DATA2/S-PL-EINT6	243
	PL7/S-JTAG-DI/S-PWM-7/I2S0-DOUT1/I2S0-DIN0/DMIC-DATA1/S-PL-EINT7	244
	PL8/S-TWI1-SCK/S-DJTAG-MS/S-RJTAG-MS/I2S0-MCLK/DMIC-DATA0/S-PL-EINT8	245
	PL9/S-TWI1-SDA/S-DJTAG-CK/S-RJTAG-CK/S-PWM-1/DMIC-CLK/S-PL-EINT9	321
	PL10/S-PWM-0/S-DJTAG-DO/S-RJTAG-DO/DMIC-DATA0/S-SPI0-CS0/S-PL-EINT10	322
	PL11/S-IR-RX/S-DJTAG-DI/S-RJTAG-DI/DMIC-DATA1/S-SPI0-CLK/S-PL-EINT11	323
	PL12/S-TWI2-SCK/S-PWM-8/S-UART0-TX/DMIC-DATA2/S-SPI0-MOSI/S-PL-EINT12	324
	PL13/S-TWI2-SDA/S-PWM-9/S-UART0-RX/DMIC-DATA3/S-SPI0-MISO/S-PL-EINT13	325
	PK0/MCSIA-D0N/PK-EINT0	201
	PK1/MCSIA-D0P/PK-EINT1	200
	PK2/MCSIA-D1N/PK-EINT2	199
	PK3/MCSIA-D1P/PK-EINT3	198
	PK4/MCSIA-CKN/TWI2-SCK/PK-EINT4	281
	PK5/MCSIA-CKP/TWI2-SDA/PK-EINT5	280
	PK6/MCSIB-D0N/PK-EINT6	285
	PK7/MCSIB-D0P/PK-EINT7	284
	PK8/MCSIB-D1N/PK-EINT8	283
	PK9/MCSIB-D1P/PK-EINT9	282
	PK10/MCSIC-RESET/MCSIB-CKN/TWI3-SCK/PK-EINT10	79
	PK11/MCSIA-RESET/MCSIB-CKP/TWI3-SDA/PK-EINT11	68
	PK12/MCSIC-D0N/UART7-TX/TWI4-SCK/NCSI-PCLK/PK-EINT12	74
	PK13/MCSIC-D0P/UART7-RX/TWI4-SDA/NCSI-MCLK/PK-EINT13	73
	PK14/MCSIC-D1N/UART7-RTS/UART5-RTS/NCSI-HSYNC/PK-EINT14	72
	PK15/MCSIC-D1P/UART7-CTS/UART5-CTS/NCSI-VSYNC/PK-EINT15	71
	PK16/MCSIC-CKN/TWI5-SCK/UART5-TX/NCSI-D0/PK-EINT16	70
	PK17/MCSIC-CKP/TWI5-SDA/UART5-RX/NCSI-D1/PK-EINT17	69
	PK18/MCSID-D0N/MCSIO-MCLK/UART6-TX/NCSI-D2/PK-EINT18	78
	PK19/MCSID-D0P/TWI2-SCK/UART6-RX/NCSI-D3/PK-EINT19	77
	PK20/MCSID-D1N/TWI2-SDA/UART6-RTS/NCSI-D4/PK-EINT20	76
	PK21/MCSID-D1P/MCSI1-MCLK/UART6-CTS/NCSI-D5/PK-EINT21	75
	PK22/MCSIC-PWDN/MCSID-CKN/TWI3-SCK/PWM-6/NCSI-D6/PK-EINT22	203
	PK23/MCSIA-PWDN/MCSID-CKP/TWI3-SDA/PWM-7/NCSI-D7/PK-EINT23	202
	VCC-PK-IN	80
GND		
GND	1	1
	6	6
	17	17
	28	28
	33	33
	36	36
	43	43
	44	44
	51	51
	56	56
	66	66
	93	93
	121	121
	131	131
	132	132
	133	133
	144	144
	162	162
	163	163
	164	164
	173	173
	174	174
	175	175
	182	182
	185	185
	197	197
	204	204
	209	209
	216	216
	222	222
	227	227
	228	228
	229	229
	238	238
	246	246
	247	247
	248	248
	254	254
	255	255
	263	263
	268	268
	269	269
	279	279
	286	286
	287	287
	291	291
	304	304
	309	309
	312	312
	320	320
	326	326

5.2 核心板引脚列表

核心板引脚列表如下图所示：

Num	Pin Name	BGA636 Ball	BGA636 Ball		Power Rail	Comment
			Signal Name	Mode		
1	/	/	GND	/	/	/
2	/	L32	PD23	/	3.3V	/
			PWM-0	/		
			SPI1-WP	/		
			DBI-TE	/		
			UART2- CTS	/		
			UART7-RX	/		
			TWI0-SDA	/		
			PD-EINT23	/		
3	/	L31	PD22	/	3.3V	/
			PWM-1	/		
			SPI1-HOLD	/		
			DBI-DCX	/		
			DBI-WRX	/		
			UART2- RTS	/		
			UART7-TX	/		
			TWI0-SCK	/		
4	/	L29	PD21	/	3.3V	/
			LCD0- VSYNC	/		

			PWM-3	/		
			UART2-RX	/		
			UART7-CTS	/		
			UART4-CTS	/		
			PD-EINT21	/		
5	/	L28	PD20	/	3.3V	/
			LCD0-HSYNC	/		
			PWM-2	/		
			UART2-TX	/		
			UART7-RTS	/		
			UART4-RTS	/		
			PD-EINT20	/		
6	GND		GND	/	/	/
7	/	K32	PD19	/	3.3V	/
			LCD0-DE	/		
			LVDS1-D3N	/		
			DSI1-D3N	/		
			PWM-19	/		
			UART4-RX	/		
			PD-EINT19	/		
8	/	K31	PD18	/	3.3V	/

			LCD0-CLK	/		
			LVDS1-D3P	/		
			DSI1-D3P	/		
			PWM-18	/		
			UART4-TX	/		
			PD-EINT18	/		
			PD17	/		
			LCD0-D23	/		
			LVDS1-CKN	/		
9	/	J33	DSI1-D2N	/	3.3V	/
			PWM-17	/		
			UART3-CTS	/		
			PD-EINT17	/		
			PD16	/		
			LCD0-D22	/		
			LVDS1-CKP	/		
10	/	J32	DSI1-D2P	/	3.3V	/
			PWM-16	/		
			UART3-RTS	/		
			PD-EINT16	/		
11	/	J30	PD15	/	3.3V	/
			LCD0-D21	/		

			LVDS1-D2N	/		
			DSI1-CKN	/		
			PWM-15	/		
			UART3-RX	/		
			PD-EINT15	/		
12	/	J29	PD14	/	3.3V	/
			LCD0-D20	/		
			LVDS1-D2P	/		
			DSI1-CKP	/		
			PWM-14	/		
			UART3-TX	/		
			PD-EINT14	/		
13	/	H32	PD13	/	3.3V	/
			LCD0-D19	/		
			LVDS1-D1N	/		
			DSI1-D1N	/		
			PWM-13	/		
			SPI1-MISO	/		
			DBI-SDI	/		
			DBI-TE	/		
			DBI-DCX	/		
			PD-EINT13	/		
14	/	H31	PD12	/	3.3V	/
			LCD0-D18	/		
			LVDS1-D1P	/		

			DSI1-D1P	/		
			PWM-12	/		
			SPI1-MOSI	/		
			DBI-SDO	/		
			PD-EINT12	/		
			PD11	/		
			LCD0-D15	/		
			LVDS1-D0N	/		
15	/	G33	DSI1-D0N	/	3.3V	/
			PWM-11	/		
			SPI1-CLK	/		
			DBI-SCLK	/		
			PD-EINT11	/		
			PD10	/		
			LCD0-D14	/		
			LVDS1-D0P	/		
16	/	G32	DSI1-D0P	/	3.3V	/
			PWM-10	/		
			SPI1-CS0	/		
			DBI-CSX	/		
			PD-EINT10	/		
17	GND	/	GND	/	/	/
18	/	G31	PD9	/	3.3V	/
			LCD0-D13	/		

			LVDS0-D3N	/		
			DSI0-D3N	/		
			PWM-9	/		
			PD-EINT9	/		
19	/	G30	PD8	/	3.3V	/
			LCD0-D12	/		
			LVDS0-D3P	/		
			DSI0-D3P	/		
			PWM-8	/		
			PD-EINT8	/		
20	/	F33	PD7	/	3.3V	/
			LCD0-D11	/		
			LVDS0-CKN	/		
			DSI0-D2N	/		
			PWM-7	/		
			PD-EINT7	/		
21	/	F32	PD6	/	3.3V	/
			LCD0-D10	/		
			LVDS0-CKP	/		
			DSI0-D2P	/		
			PWM-6	/		
			PD-EINT6	/		
22	/	E33	PD5	/	3.3V	/

			LCD0-D7	/		
			LVDS0-D2N	/		
			DSI0-CKN	/		
			PWM-5	/		
			PD-EINT5	/		
23	/	E32	PD4	/	3.3V	/
			LCD0-D6	/		
			LVDS0-D2P	/		
			DSI0-CKP	/		
			PWM-4	/		
24	/	E31	PD-EINT4	/	3.3V	/
			PD3	/		
			LCD0-D5	/		
			LVDS0-D1N	/		
			DSI0-D1N	/		
25	/	E30	PWM-3	/	3.3V	/
			PD-EINT3	/		
			PD2	/		
			LCD0-D4	/		
			LVDS0-D1P	/		
			DSI0-D1P	/		
			PWM-2	/		
			PD-EINT2	/		

26	/	D33	PD1	/	3.3V	/
			LCD0-D3	/		
			LVDS0-D0N	/		
			DSI0-D0N	/		
			PWM-1	/		
			PD-EINT1	/		
27	/	D32	PD0	/	3.3V	/
			LCD0-D2	/		
			LVDS0-D0P	/		
			DSI0-D0P	/		
			PWM-0	/		
			PD-EINT0	/		
			LCD0-D2	/		
			LVDS0-D0P	/		
			DSI0-D0P	/		
			PWM-0	/		
			PD-EINT0	/		
28	GND	/	GND	/	/	/
29	/	D28	HHPD	/	/	/
30	/	E28	HCEC	/	/	/
31	/	E26	HSDA	/	/	/
32	/	D26	HSCL	/	/	/
33	GND	/	GND	/	/	/

34	/	B28	HTXCN	/	/	/
35	/	A28	HTXCP	/	/	/
36	GND	/	GND	/	/	/
37	/	C25	HTX2N	/	/	/
38	/	B25	HTX2P	/	/	/
39	/	B26	HTX1N	/	/	/
40	/	A26	HTX1P	/	/	/
41	/	C27	HTX0N	/	/	/
42	/	B27	HTX0P	/	/	/
43	GND	/	GND	/	/	/
44	GND	/	GND	/	/	/
45	/	C21	PCIE21- REFCLKN	/	/	/
46	/	B21	PCIE21- REFCLKP	/	/	/
47	/	C23	PCIE-RX0- DN	/	/	/
			USB3-RXN	/		
48	/	B23	PCIE-RX0- DP	/	/	/
			USB3-RXP	/		
49	/	A22	PCIE-TX0	/	/	/
			USB3-TXN	/		
50	/	A22	PCIE-TX0- DP	/	/	/
			USB3-TXP	/		
51	GND	/	GND	/	/	/

52	/	D22	USB2-DP-OTG	/	/	/
53	/	E22	USB2-DM-OTG	/	/	/
54	/	D24	USB1-DP-HOST	/	/	/
55	/	E24	USB1-DM-HOST	/	/	/
56	/	A24	USB0-DP-OTG-Burn Port	/	/	/
57	/	B24	USB0-DM-OTG-Burn Port	/	/	/
58	/	D20	PF6	/	3.3V	/
			SDC0-DET	/		
			I2S3-MCLK	/		
			PF-EINT6	/		
59	/	B20	PF0	/	3.3V	/
			SDC0-D1	/		
			JTAG-MS	/		
			TRACE-DATA2	/		
			I2S3-DIN0	/		
			I2S3-DOUT1	/		
			PF-EINT0	/		
60	/	A20	PF1	/	3.3V	/

			SDC0-D0	/		
			JTAG-DI	/		
			TRACE-DATA1	/		
			I2S3-DOUT0	/		
			I2S3-DIN1	/		
			PF-EINT1	/		
61	/	C19	PF2	/	3.3V	/
			SDC0-CLK	/		
			UART0-TX	/		
			I2S3-DIN2	/		
			I2S3-DOUT2	/		
			PF-EINT2	/		
62	/		VCC-CARD-OUT	/	3.3V	AXP717B PIN
63	/	B19	PF3	/	3.3V	/
			SDC0-CMD	/		
			JTAG-DO	/		
			TRACE-DATA0	/		
			I2S3-LRCK	/		
			PF-EINT3	/		
64	/	B18	PF4	/	3.3V	/
			SDC0-D3	/		

			UART0-RX	/		
			I2S3-DIN3	/		
			I2S3-DOUT3	/		
			PF-EINT4	/		
65	/	A18	PF5	/	3.3V	/
			SDC0-D2	/		
			JTAG-CK	/		
			TRACE-CLK	/		
			I2S3-BCLK	/		
			PF-EINT5	/		
66	GND	/	GND	/	/	/
67	/	F16	FEL-KEY	/		/
68	/	D8	PK11	/	1.8V/3.3V	/
			MCSIA-RESET	/		
			MCSIB-CKP	/		
			TWI3-SDA	/		
			PK-EINT11	/		
69	/	C7	PK17	/	1.8V/3.3V	/
			MCSIC-CKP	/		
			TWI5-SDA	/		
			UART5-RX	/		
			NCSI-D1	/		

			PK-EINT17	/		
70	/	B7	PK16	/	1.8V/3.3V	/
			MCSIC-CKN	/		
			TWI5-SCK	/		
			UART5-TX	/		
			NCSI-D0	/		
			PK-EINT16	/		
71	/	B8	PK15	/	1.8V/3.3V	/
			MCSIC-D1P	/		
			UART7-CTS	/		
			UART5-CTS	/		
			NCSI-VSYNC	/		
			PK-EINT15	/		
72	/	A8	PK14	/	1.8V/3.3V	/
			MCSIC-D1N	/		
			UART7-RTS	/		
			UART5-RTS	/		
			NCSI-HSYNC	/		
			PK-EINT14	/		
73	/	C9	PK13	/	1.8V/3.3V	/

			MCSIC-D0P	/		
			UART7-RX	/		
			TWI4-SDA	/		
			NCSI-MCLK	/		
			PK-EINT13	/		
74	/	B9	PK12	/	1.8V/3.3V	/
			MCSIC-D0N	/		
			UART7-TX	/		
			TWI4-SCK	/		
			NCSI-PCLK	/		
			PK-EINT12	/		
75	/	B5	PK21	/	1.8V/3.3V	/
			MCSID-D1P	/		
			MCSI1-MCLK	/		
			UART6-CTS	/		
			NCSI-D5	/		
			PK-EINT21	/		
76	/	A5	PK20	/	1.8V/3.3V	/
			MCSID-D1N	/		
			TWI2-SDA	/		

			UART6-RTS	/		
			NCSI-D4	/		
			PK-EINT20	/		
77	/	B6	PK19	/	1.8V/3.3V	/
			MCSID-D0P	/		
			TWI2-SCK	/		
			UART6-RX	/		
			NCSI-D3	/		
			PK-EINT19	/		
78	/	A6	PK18	/	1.8V/3.3V	/
			MCSID-D0N	/		
			MCSI0-MCLK	/		
			UART6-TX	/		
			NCSI-D2	/		
			PK-EINT18	/		
79	/	E8	PK10	/	1.8V/3.3V	/
			MCSIC-RESET	/		
			MCSIB-CKN	/		
			TWI3-SCK	/		
			PK-EINT10	/		
80	/	M10	VCC-PK-IN	/	/	/

81	/	/	VCC1V8_O UT_S3	/	1.8V	AXP717B PIN
82	/	/	VCC3V3_O UT_S0	/	3.3V	AXP717B PIN
83	/	L9	VCC-PE-IN	/	/	/
84	/	A3	PE6	/	1.8V/3.3V	/
			I2S2-BCLK	/		
			LCD0-TRIG	/		
			NCSI-D8	/		
			PE-EINT6	/		
85	/	A2	PE7	/	1.8V/3.3V	/
			I2S2-LRCK	/		
			LCD1-TRIG	/		
			NCSI-D9	/		
			PE-EINT7	/		
86	/	B2	PE8	/	1.8V/3.3V	/
			I2S2- DOUT0	/		
			LCD2-TRIG	/		
			NCSI-D10	/		
			PE-EINT8	/		
87	/	B1	PE9	/	1.8V/3.3V	/
			I2S2-DIN0	/		
			NCSI-D11	/		
			PE-EINT9	/		
88	/	C2	PE10	/	1.8V/3.3V	/

			MCSI3-MCLK	/		
			PWM-3	/		
			NCSI-D12	/		
			PE-EINT10	/		
89	/	J7	PE11	/	1.8V/3.3V	/
			TWI1-SCK	/		
			UART5-RTS	/		
			SPI2-CS0	/		
			UART6-TX	/		
			NCSI-D13	/		
			PE-EINT11	/		
90	/	C1	PE12	/	1.8V/3.3V	/
			TWI1-SDA	/		
			UART5-CTS	/		
			SPI2-CLK	/		
			UART6-RX	/		
			NCSI-D14	/		
			PE-EINT12	/		
91	/	L7	PE14	/	1.8V/3.3V	/
			TWI4-SDA	/		
			UART5-RX	/		
			SPI2-MISO	/		
			UART6-CTS	/		

			CSI1-XVS-FSYNC	/		
			PE-EINT14	/		
92	/	G6	PE13	/	1.8V/3.3V	/
			TWI4-SCK	/		
			UART5-TX	/		
			SPI2-MOSI	/		
			UART6-RTS	/		
			CSI0-XVS-FSYNC	/		
			PE-EINT13	/		
93	GND	/	GND	/	/	/
94	/	D2	PJ1	/	3.3V	/
			LCD1-D1	/		
			LVDS2-D0N	/		
			RGMII1-RXD0	/		
			RMII1-RXD0	/		
			PJ-EINT1	/		
95	/	D14	PJ0	/	3.3V	/
			LCD1-D0	/		
			LVDS2-D0P	/		
			RGMII1-RXD1	/		

			RMII1-RXD1	/		
			PJ-EINT0	/		
96	/	E2	PJ3	/	3.3V	/
			LCD1-D3	/		
			LVDS2-D1N	/		
			RGMII1-CLKIN	/		
			RMII1-RXER	/		
			PJ-EINT3	/		
97	/	E1	PJ2	/	3.3V	/
			LCD1-D2	/		
			LVDS2-D1P	/		
			RGMII1-RXCTL	/		
			RMII1-CRS-DV	/		
			PJ-EINT2	/		
98	/	F2	PJ5	/	3.3V	/
			LCD1-D5	/		
			LVDS2-D2N	/		
			RGMII1-TXD0	/		
			RMII1-TXD0	/		
			PJ-EINT5	/		

99	/	F1	PJ4	/	3.3V	/
			LCD1-D4	/		
			LVDS2-D2P	/		
			RGMII1-TXD1	/		
			RMII1-TXD1	/		
			PJ-EINT4	/		
100	/	G2	PJ7	/	3.3V	/
			LCD1-D7	/		
			LVDS2-CKN	/		
			RGMII1-TXCTE	/		
			RMII1-TXEN	/		
			PJ-EINT7	/		
101	/	G1	PJ6	/	3.3V	/
			LCD1-D6	/		
			LVDS2-CKP	/		
			RGMII1-TXCK	/		
			RMII1-TXCK	/		
			PJ-EINT6	/		
102	/	H3	PJ9	/	3.3V	/
			LCD1-D9	/		

			LVDS2-D3N	/		
			RGMI1-MDIO	/		
			PJ-EINT9	/		
103	/	H2	PJ8	/	3.3V	/
			LCD1-D8	/		
			LVDS2-D3P	/		
			RGMI1-MDC	/		
			PJ-EINT8	/		
104	/	U6	PG9	/	1.8V	/
			UART1-CTS	/		
			PG-EINT9	/		
105	/	R4	PG8	/	1.8V	/
			UART1-RTS	/		
			PG-EINT8	/		
106	/	R5	PG7	/	1.8V	/
			UART1-RX	/		
			PG-EINT7	/		
107	/	R6	PG6	/	1.8V	/
			UART1-TX	/		
			PG-EINT6	/		
108	/	T2	PG5	/	1.8V	/

			SDC1-D3	/		
			PG-EINT5	/		
109	/	T3	PG4	/	1.8V	/
			SDC1-D2	/		
			PCIE0-CLKREQN	/		
			PG-EINT5	/		
110	/	P2	PG3	/	1.8V	/
			SDC1-D1	/		
			PCIE0-WAKEN	/		
			PG-EINT3	/		
111	/	P3	PG2	/	1.8V	/
			SDC1-D0	/		
			PCIE0-PERSTN	/		
			PG-EINT2	/		
112	/	R2	PG1	/	1.8V	/
			SDC1-CMD	/		
			PG-EINT1	/		
113	/	R1	PG0	/	1.8V	/
			SDC1-CLK	/		
			PG-EINT0	/		
114	/	AJ2	HP-DET	/	/	/
115	/	AL2	HPOUTL	/	/	/
116	/	AM2	HPOUTR	/	/	/

117	/	AM1	HPOUTFB	/	/	/
118	/	AD2	MICIN1P	/	/	/
119	/	AD1	MICIN1N	/	/	/
120	/	AK1	MBIAS	/	/	/
121	GND	/	GND	/	/	/
122	/	AL5	PM5	/	1.8V	/
			USB0- VBUSDET	/		
			S-IR-RX	/		
			S-RJTAG- DI	/		
			S-TWI2- SDA	/		
			S-PWM-9	/		
123	/	AN4	S-PM- EINT5	/	1.8V	/
			PM4	/		
			BT-WAKE- AP	/		
			S-PWM-8	/		
			S-RJTAG- DO	/		
			S-TWI2- SCK	/		
124	/	AM3	S-PM- EINT4	/	1.8V	/
			PM3	/		

			AP-WAKE-BT	/		
			S-TWI1-SDA	/		
			S-RJTAG-CK	/		
			S-PWM-7	/		
			S-PM-EINT3	/		
125	/	AM4	PM2	/	1.8V	/
			BT-RESETN	/		
			S-TWI1-SCK	/		
			S-RJTAG-MS	/		
			S-PWM-6	/		
126	/	AN2	S-PM-EINT2	/	1.8V	/
			PM1	/		
			WL-REG-ON	/		
			S-UART0-RX	/		
			S-UART1-RX	/		
			S-PWM-3	/		
			S-PM-EINT1	/		

127	/	AN3	PM0	/	1.8V	/
			WL- WAKE-AP	/		
			S-UART0- TX	/		
			S-UART1- TX	/		
			S-PWM-2	/		
			S-PM- EINT0	/		
128	/	/	AP- CK32K- OUT	/	/	AXP717B PIN
129	/	/	VCC5V_IN	/	5V	/
130	/	/	VCC5V_IN	/	5V	/
131	GND	/	GND	/	/	/
132	GND	/	GND	/	/	/
133	GND	/	GND	/	/	/
134	/	AJ11	AP-RST- KEY	/	/	AXP717B PIN
135	/		POWERON	/	/	AXP717B PIN
136	/	V3	LRADC0	/	/	/
137	/	V2	LRADC1	/	/	/
138	/	W4	GPADC3	/	/	/
139	/	W5	GPADC4	/	/	/
140	/	W6	GPADC5	/	/	/
141	/	Y2	GPADC6	/	/	/

142	/	Y3	GPADC7	/	/	/
143	/	AA1	GPADC8	/	/	/
144	GND	/	GND	/	/	/
145	/	AH13	PI0	/	3.3V	/
			TWI4-SCK	/		
			UART4-TX	/		
			PWM-1	/		
			I2S2-DIN3	/		
			I2S2-DOUT3	/		
			PI-EINT0	/		
146	/	AG13	PI1	/	3.3V	/
			TWI4-SDA	/		
			UART4-RX	/		
			PWM-2	/		
			I2S2-DIN2	/		
			I2S2-DOUT2	/		
			PI-EINT1	/		
147	/	AL15	PI2	/	3.3V	/
			UART5-TX	/		
			SPI1-CS0	/		
			PWM-3	/		
			I2S2-BCLK	/		
			PI-EINT2	/		
148	/	AN15	PI3	/	3.3V	/

			UART5-RX	/		
			SPI1-CLK	/		
			PWM-4	/		
			I2S2-LRCK	/		
			PI-EINT3	/		
149	/	AM15	PI4	/	3.3V	/
			UART5-RTS	/		
			SPI1-MOSI	/		
			PWM-5	/		
			I2S2-DOUT0	/		
			I2S2-DIN1	/		
			PI-EINT4	/		
150	/	AJ15	PI5	/	3.3V	/
			UART5-CTS	/		
			SPI1-MISO	/		
			PWM-6	/		
			I2S2-DIN0	/		
			I2S2-DOUT1	/		
			PI-EINT5	/		
151	/	AK15	PI6	/	3.3V	/
			UART6-TX	/		
			UART4-RTS	/		

			PWM-7	/		
			SPI2-CS0	/		
			PI-EINT6	/		
152	/	AH15	PI7	/	3.3V	/
			UART6-RX	/		
			UART4-CTS	/		
			PWM-8	/		
			SPI2-CLK	/		
			PI-EINT7	/		
153	/	AL16	PI8	/	3.3V	/
			TWI5-SCK	/		
			IR-RX	/		
			PWM-9	/		
			SPI2-MOSI	/		
			PI-EINT8	/		
154	/	AM16	PI9	/	3.3V	/
			TWI5-SDA	/		
			DMIC-DATA2	/		
			PWM-10	/		
			PI-EINT9	/		
155	/	AN17	PI10	/	3.3V	/
			OWA-OUT	/		
			DMIC-DATA1	/		

			PWM-11	/		
			2S2-MCLK	/		
			PI-EINT10	/		
156	/	AM17	PI11	/	3.3V	/
			UART3-TX	/		
			DMIC-DATA0	/		
			PWM-12	/		
			PI-EINT11	/		
157	/	AL17	PI12	/	3.3V	/
			UART3-RX	/		
			PWM-13	/		
			SPI2-MISO	/		
			PI-EINT12	/		
158	/	AK17	PI13	/	3.3V	/
			UART6-CTS	/		
			DMIC-DATA3	/		
			PWM-14	/		
			I2S2-MCLK	/		
			PI-EINT13	/		
159	/	AM18	PI14	/	3.3V	/
			UART6-RTS	/		
			DMIC-CLK	/		
			PWM-15	/		

			PI-EINT14	/		
160	/	AH17	PI15	/	3.3V	/
			UART3-RTS	/		
			TWI2-SCK	/		
			PWM-16	/		
			CAN-TX0	/		
			PI-EINT15	/		
161	/	AJ17	PI16	/	3.3V	/
			UART3-CTS	/		
			TWI2-SDA	/		
			PWM-17	/		
			CAN-RX0	/		
			PI-EINT16	/		
162	GND	/	GND	/	/	/
163	GND	/	GND	/	/	/
164	GND	/	GND	/	/	/
165	/	P31	PB7	/	3.3V	/
			OWA-IN	/		
			I2S0-DOUT0	/		
			I2S0-DIN1	/		
			LCD0-D16	/		
			PWM-11	/		
			PB-EINT7	/		

166	/	N33	PB6	/	3.3V	/
			I2S0-LRCK	/		
			TRACE-DATA0	/		
			PWM-10	/		
			HDMI-CEC	/		
			PB-EINT6	/		
167	/	N32	PB5	/	3.3V	/
			TWI1-SDA	/		
			I2S0-BCLK	/		
			TRACE-CLK	/		
			PWM-9	/		
			HDMI-SDA	/		
168	/	N31	PB-EINT5	/	3.3V	/
			PB4	/		
			TWI1-SCK	/		
			I2S0-MCLK	/		
			TRACE-DATA2	/		
			PWM-8	/		
169	/	M32	HDMI-SCL	/	3.3V	/
			PB-EINT4	/		
			PB3	/		
			UART2-CTS	/		
			SPI2-MISO	/		

			JTAG-DI	/		
			LCD0-D9	/		
			CAN-RX0	/		
			PB-EINT3	/		
170	/	M31	PB2	/	3.3V	/
			UART2-CTS	/		
			SPI2-MOSI	/		
			JTAG-DO	/		
			LCD0-D8	/		
			CAN-TX0	/		
			PB-EINT2	/		
171	/	N29	PB1	/	3.3V	/
			UART2-RX	/		
			SPI2-CLK	/		
			JTAG-CK	/		
			LCD0-D1	/		
			PWM-7	/		
			PB-EINT1	/		
172	/	N28	PB0	/	3.3V	/
			UART2-TX	/		
			SPI2-CS0	/		
			JTAG-MS	/		
			LCD0-D0	/		
			PWM-6	/		
			PB-EINT0	/		

173	GND	/	GND	/	/	/
174	GND	/	GND	/	/	/
175	GND	/	GND	/	/	/
176	/	C33	EDP-AUXN	/	/	/
177	/	C32	EDP-AUXP	/	/	/
178	/	B30	EDP-TX1N	/	/	/
179	/	A30	EDP-TX1P	/	/	/
180	/	B29	EDP-TX0N	/	/	/
181	/	A29	EDP-TX0P	/	/	/
182	GND	/	GND	/	/	/
183	/	C29	EDP-HPD	/	/	/
184	/	G16	JTAG-SEL	/	/	/
185	GND	/	GND	/	/	/
186	/	C15	PH12	/	3.3V	/
			PCIE21- WAKEn	/		
			DMIC- DATA3	/		
			TWI3-SCK	/		
			I2S2-DIN0	/		
			I2S2- DOUT1	/		
			PCIE0- WAKEN	/		
187	/	A16	PH-EINT12	/	3.3V	/

			PCIE21- PERSTn	/		
			DMIC- DATA2	/		
			SPI2-MISO	/		
			I2S2- DOUT0	/		
			I2S2-DIN1	/		
			PCIE0- PERSTN	/		
			PH-EINT11	/		
188	/	C13	PH19	/	3.3V	/
			PCIE21- CLKREQn	/		
			IR-RX	/		
			I2S3- DOUT3	/		
			I2S3-DIN3	/		
			LEDC	/		
			PCIE0- CLKREQN	/		
			PH-EINT19	/		
189	/	E14	PH14	/	3.3V	/
			I2S3-BCLK	/		
			RGMII0- RXD3	/		
			RMIIO- NULL	/		

			RGMII0-RXD0	/		
			RMII0-RXD0	/		
			PH-EINT1	/		
			PH2	/		
			TWI1-SCK	/		
			CPU-CUR-W	/		
			I2S2-DIN3	/		
194	/	D18	RGMII0-RXCTL	/	3.3V	/
			RMII0-CRS-DV	/		
			I2S2-DOUT3	/		
			PH-EINT2	/		
			PH13	/		
			TWI3-SDA	/		
195	/	B15	I2S3-MCLK	/	3.3V	/
			RGMII0-EPHY-25M	/		
			PH-EINT13	/		
196	/	D16	PH8	/	3.3V	/
			PHYRSTB	/		
			DMIC-CLK	/		
			SPI2-CS0	/		
			I2S2-MCLK	/		

			I2S2-DIN2	/		
			PH-EINT8	/		
197	GND	/	GND	/	/	/
198	/	C11	PK3	/	1.8V/3.3V	/
			MCSIA-D1P	/		
			PK-EINT3	/		
199	/	B11	PK2	/	1.8V/3.3V	/
			MCSIA-D1N	/		
			PK-EINT2	/		
200	/	B12	PK1	/	1.8V/3.3V	/
			MCSIA-D0P	/		
			PK-EINT1	/		
201	/	A12	PK0	/	1.8V/3.3V	/
			MCSIA-D0N	/		
			PK-EINT0	/		
202	/	B4	PK23	/	1.8V/3.3V	/
			MCSIA-PWDN	/		
			MCSID-CKP	/		
			TWI3-SDA	/		
			PWM-7	/		
			NCSI-D7	/		
			PK-EINT23	/		

203	/	A4	PK22	/	1.8V/3.3V	/
			MCSIC-PWDN	/		
			MCSID-CKN	/		
			TWI3-SCK	/		
			PWM-6	/		
			NCSI-D6	/		
			PK-EINT22	/		
204	GND	/	GND	/	/	/
205	/	B3	PE5	/	1.8V/3.3V	/
			MCSI1-MCLK	/		
			PLL-LOCK-DBG	/		
			I2S2-MCLK	/		
			LEDC	/		
			PE-EINT5	/		
206	/	E6	PE0	/	1.8V/3.3V	/
			MCSI0-MCLK	/		
			PE-EINT0	/		
			MCSI0-MCLK	/		
207	/	E5	PE2	/	1.8V/3.3V	/
			MCSIA-SDA	/		
			TWI2-SDA	/		

			UART4-RX	/		
			PE-EINT2	/		
208	/	C4	PE1	/	1.8V/3.3V	/
			MCSIA-SCK	/		
			TWI2-SCK	/		
			UART4-TX	/		
			PE-EINT1	/		
209	GND	/	GND	/	/	/
210	/	J1	PJ16	/	3.3V	/
			LCD1-D16	/		
			LVDS3-CKP	/		
			PJ-EINT16	/		
211	/	J2	PJ17	/	3.3V	/
			LCD1-D17	/		
			LVDS3-CKN	/		
			PJ-EINT17	/		
212	/	J5	PJ13	/	3.3V	/
			LCD1-D13	/		
			LVDS3-D1N	/		
			RGMII1-RXCK	/		
			RMI11-NULL	/		

			PJ-EINT13	/		
213	/	J4	PJ12	/	3.3V	/
			LCD1-D12	/		
			LVDS3-D1P	/		
			RGMII1-RXD2	/		
			RMI11-NULL	/		
			PJ-EINT12	/		
214	/	G5	PJ11	/	3.3V	/
			LCD1-D11	/		
			LVDS3-D0N	/		
			RGMII1-RXD3	/		
			RMI11-NULL	/		
			PJ-EINT11	/		
215	/	G4	PJ10	/	3.3V	/
			LCD1-D10	/		
			LVDS3-D0P	/		
			RGMII1-EPHY-25M	/		
			PJ-EINT10	/		
216	GND	/	GND	/	/	/
217	/	U1	PG14	/	1.8V	/

			BT-PCM-DIN	/		
			I2S1-DIN0	/		
			I2S1-DOUT1	/		
			PG-EINT14	/		
			PG13	/		
			BT-PCM-DOUT	/		
218	/	U2	I2S1-DOUT0	/	1.8V	/
			I2S1-DIN1	/		
			PG-EINT13	/		
			PG12	/		
			BT-PCM-SYNC	/		
219	/	U3	I2S1-LRCK	/	1.8V	/
			PG-EINT12	/		
			PG11	/		
			BT-PCM-CLK	/		
220	/	U4	I2S1-BCLK	/	1.8V	/
			PG-EINT11	/		
			PG10	/		
			I2S1-MCLK	/		
221	/	U5	PG-EINT10	/	1.8V	/
222	GND	/	GND	/	/	/

223	/	AH1	LINEOUTR N	/	/	/
224	/	AH2	LINEOUTR P	/	/	/
225	/	AG1	LINEOUTL N	/	/	/
226	/	AG2	LINEOUTLP	/	/	/
227	GND	/	GND	/	/	/
228	GND	/	GND	/	/	/
229	GND	/	GND	/	/	/
230	/	AA2	GPADC9	/	/	/
231	/	AA3	GPADC10	/	/	/
232	/	AA4	GPADC11	/	/	/
233	/	AA5	GPADC12	/	/	/
234	/	AA6	GPADC13	/	/	/
235	/	AB2	GPADC14	/	/	/
236	/	AB3	GPADC15	/	/	/
237	/	AC2	GPADC16	/	/	/
238	GND	/	GND	/	/	/
239	/	AN7	PL2	/	3.3V	/
			S-UART0- TX	/		
			S-UART1- TX	/		
			S-PWM-2	/		
			S-PL- EINT2	/		

240	/	AM6	PL3	/	3.3V	/
			S-UART0-RX	/		
			S-UART1-RX	/		
			S-PWM-3	/		
			S-PL-EINT3	/		
241	/	AM7	PL4	/	3.3V	/
			S-JTAG-MS	/		
			S-CAN-TX0	/		
			S-PWM-4	/		
			I2S0-BCLK	/		
			S-PL-EINT4	/		
242	/	AL7	PL5	/	3.3V	/
			S-JTAG-CK	/		
			S-CAN-RX0	/		
			S-PWM-5	/		
			I2S0-LRCK	/		
			DMIC-DATA3	/		
			S-PL-EINT5	/		

243	/	AN8	PL6	/	3.3V	/
			S-JTAG-DO	/		
			S-PWM-6	/		
			I2S0-DIN1	/		
			I2S0-DOUT0	/		
			DMIC-DATA2	/		
			S-PL-EINT6	/		
244	/	AM8	PL7	/	3.3V	/
			S-JTAG-DI	/		
			S-PWM-7	/		
			I2S0-DOUT1	/		
			I2S0-DIN0	/		
			DMIC-DATA1	/		
			S-PL-EINT7	/		
245	/	AN9	PL8	/	3.3V	/
			S-TWI1-SCK	/		
			S-DJTAG-MS	/		
			S-RJTAG-MS	/		

			I2S0-MCLK	/		
			DMIC-DATA0	/		
			S-PL-EINT8	/		
246	GND	/	GND	/	/	/
247	GND	/	GND	/	/	/
248	GND	/	GND	/	/	/
249	/	U33	PC12	/	1.8V	/
			NAND-DQS	/		
			SPI0-CLK	/		
			SPIF-CLK	/		
			PC-EINT12	/		
250	/	W29	PC7	/	1.8V	/
			NAND-RB1	/		
			SPI0-CS1	/		
			SPIF-DQS	/		
			PC-EINT7	/		
251	/	U28	PC4	/	1.8V	/
			NAND-CE0	/		
			SPI0-MISO	/		
			SPIF-MISO	/		
			PC-EINT4	/		
252	/	U29	PC3	/	1.8V	/
			NAND-CE1	/		
			SPI0-CS0	/		

			SPIF-CS0	/		
			PC-EINT3	/		
			PC2	/		
			NAND-CLE	/		
253	/	U30	SPI0-MOSI	/	1.8V	/
			SPIF-MOSI	/		
			PC-EINT2	/		
254	GND	/	GND	/	/	/
255	GND	/	GND	/	/	/
			PB14	/		
			TWI4-SDA	/		
			UART7-RX	/		
256	/	R33	SPI1-MISO	/	3.3V	/
			PWM-5	/		
			PB-EINT14	/		
			PB13	/		
			TWI4-SCK	/		
			UART7-TX	/		
257	/	R32	SPI1-MOSI	/	3.3V	/
			PWM-4	/		
			PB-EINT13	/		
			PB12	/		
258	/	R31	TWI5-SDA	/	3.3V	/
			UART7-CTS	/		
			SPI1-CLK	/		

			PWM-3	/		
			PB-EINT12	/		
			PB11	/		
			TWI5-SCK	/		
259	/	R30	UART7- RTS	/	3.3V	/
			SPI1-CS0	/		
			PWM-2	/		
			PB-EINT11	/		
			PB10	/		
			UART0-RX	/		
			TWI0-SDA	/		
260	/	R29	PWM-1	/	3.3V	/
			I2S0-DIN3	/		
			I2S0- DOUT3	/		
			PB-EINT10	/		
			PB9	/		
			UART0-TX	/		
			TWI0-SCK	/		
261	/	R28	TRACE- DATA1	/	3.3V	/
			I2S0-DIN2	/		
			I2S0- DOUT2	/		
			PB-EINT9	/		
262	/	P32	PB8	/	3.3V	/

			OWA-OUT	/		
			I2S0-DIN0	/		
			I2S0-DOUT1	/		
			LCD0-D17	/		
			PWM-0	/		
			PB-EINT8	/		
263	GND	/	GND	/	/	/
264	/	B33	EDP-TX3N	/	/	/
265	/	B32	EDP-TX3P	/	/	/
266	/	B31	EDP-TX2N	/	/	/
267	/	A31	EDP-TX2P	/	/	/
268	GND	/	GND	/	/	/
269	GND	/	GND	/	/	/
270	/	B13	PH17	/	3.3V	/
			I2S3-DOUT1	/		
			I2S3-DIN0	/		
			RGMII0-TXD3	/		
			RMII0-NUL	/		
			PH-EINT17	/		
271	/	B17	PH4	/	3.3V	/
			UART3-TX	/		
			SPI1-CS0	/		
			CPU-CUR-W	/		

			RGMII0-TXD1	/		
			RMII0-TXD1	/		
			PH-EINT4	/		
272	/	A14	PH18	/	3.3V	/
			IR-TX	/		
			I2S3-DOUT2	/		
			I2S3-DIN2	/		
			RGMII0-TXD2	/		
			RMII0-NULL	/		
			PH-EINT18	/		
273	/	G12	PH6	/	3.3V	/
			UART3-RTS	/		
			SPI1-MOSI	/		
			OWA-IN	/		
			RGMII0-TXCK	/		
			RMII0-TXCK	/		
			PH-EINT6	/		
274	/	C17	PH3	/	3.3V	/
			TWI1-SDA	/		
			IR-TX	/		

			I2S2-DIN2	/		
			RGMII0-CLKIN	/		
			RMII0-RXER	/		
			I2S2-DOUT2	/		
			PH-EINT3	/		
275	/	E16	PH5	/	3.3V	/
			UART3-RX	/		
			SPI1-CLK	/		
			LEDC	/		
			RGMII0-TXD0	/		
			RMII0-TXD0	/		
			PH-EINT5	/		
276	/	F14	PH7	/	3.3V	/
			UART3-CTS	/		
			SPI1-MISO	/		
			OWA-OUT	/		
			RGMII0-TXCTL	/		
			RMII0-TXEN	/		
			PH-EINT7	/		
277	/	B16	PH10	/	3.3V	/

			DMIC-DATA1	/		
			SPI2-MOSI	/		
			I2S2-LRCK	/		
			RGMII0-MDIO	/		
			PH-EINT10	/		
278	/	C16	PH9	/	3.3V	/
			DMIC-DATA0	/		
			SPI2-CLK	/		
			I2S2-BCLK	/		
			RGMII0-MDC	/		
			PH-EINT9	/		
279	GND	/	GND	/	/	/
280	/	B10	PK5	/	1.8V/3.3V	/
			MCSIA-CKP	/		
			TWI2-SDA	/		
			PK-EINT5	/		
281	/	A10	PK4	/	1.8V/3.3V	/
			MCSIA-CKN	/		
			TWI2-SCK	/		
			PK-EINT4	/		
282	/	D10	PK9	/	1.8V/3.3V	/

			MCSIB-D1P	/		
			PK-EINT9	/		
283	/	E10	PK8	/	1.8V/3.3V	/
			MCSIB-D1N	/		
			PK-EINT8	/		
284	/	D12	PK7	/	1.8V/3.3V	/
			MCSIB-D0P	/		
			PK-EINT7	/		
285	/	E12	PK6	/	1.8V/3.3V	/
			MCSIB-D0N	/		
			PK-EINT6	/		
286	GND	/	GND	/	/	/
287	GND	/	GND	/	/	/
288	/	N7	PE15	/	1.8V/3.3V	/
			MCSI2-MCLK	/		
			PWM-2	/		
			NCSI-D15	/		
			PE-EINT15	/		
289	/	C3	PE4	/	1.8V/3.3V	/
			MCSIC-SDA	/		
			TWI3-SDA	/		

			UART4-CTS	/		
			PE-EINT4	/		
290	/	E4	PE3	/	1.8V/3.3V	/
			MCSIC-SCK	/		
			TWI3-SCK	/		
			UART4-RTS	/		
			PE-EINT3	/		
291	GND	/	GND	/	/	/
292	/	L4	PJ14	/	3.3V	/
			LCD1-D14	/		
			LVDS3-D2P	/		
			RGMII1-TXD3	/		
			RMII1-NULL	/		
			PJ-EINT14	/		
293	/	L5	PJ15	/	3.3V	/
			LCD1-D15	/		
			LVDS3-D2N	/		
			RGMII1-TXD2	/		
			RMII1-NULL	/		

			PJ-EINT15	/		
294	/	N5	PJ19	/	3.3V	/
			LCD1-D19	/		
			LVDS3-D3N	/		
			PJ-EINT19	/		
295	/	N4	PJ18	/	3.3V	/
			LCD1-D18	/		
			LVDS3-D3P	/		
			PJ-EINT18	/		
296	/	N1	PJ27	/	3.3V	/
			LCD1-VSYNC	/		
			TWI5-SDA	/		
			UART4-CTS	/		
			PJ-EINT27	/		
297	/	N2	PJ26	/	3.3V	/
			LCD1-HSYNC	/		
			TWI5-SCK	/		
			UART4-RTS	/		
			SPI0-HOLD	/		
			PJ-EINT26	/		
298	/	M2	PJ25	/	3.3V	/

			LCD1-DE	/		
			TWI4-SDA	/		
			UART4-RX	/		
			SPI0-WP	/		
			PJ-EINT25	/		
299	/	M3	PJ24	/	3.3V	/
			LCD1-CLK	/		
			TWI4-SCK	/		
			UART4-TX	/		
			SPI0-CS1	/		
			PJ-EINT24	/		
300	/	L1	PJ23	/	3.3V	/
			LCD1-D23	/		
			UART2-CTS	/		
			UART3-RX	/		
			SPI0-MISO	/		
			PJ-EINT23	/		
301	/	L2	PJ22	/	3.3V	/
			LCD1-D22	/		
			UART2-RTS	/		
			UART3-TX	/		
			SPI0-MOSI	/		
			PJ-EINT22	/		
302	/	K2	PJ21	/	3.3V	/

			LCD1-D21	/		
			UART2-RX	/		
			UART3-CTS	/		
			SPI0-CLK	/		
			PJ-EINT21	/		
303	/	K3	PJ20	/	3.3V	/
			LCD1-D20	/		
			UART2-TX	/		
			UART3-RTS	/		
			SPI0-CS0	/		
			PJ-EINT20	/		
304	GND	/	GND	/	/	/
305	/	AF2	MICIN3P	/	/	/
306	/	AF1	MICIN3N	/	/	/
307	/	AE2	MICIN2P	/	/	/
308	/	AE1	MICIN2N	/	/	/
309	GND	/	GND	/	/	/
310	/	/	AP-CK24M-OUT	/	/	/
311	/	AK13	WREQIN	/	/	/
312	GND	/	GND	/	/	/
313	/	AC3	GPADC17	/	/	/
314	/	AC4	GPADC18	/	/	/
315	/	AC5	GPADC19	/	/	/

316	/	AC6	GPADC20	/	/	/
317	/	AE4	GPADC21	/	/	/
318	/	AE5	GPADC22	/	/	/
319	/	AE6	GPADC23	/	/	/
320	GND	/	GND	/	/	/
321	/	AM9	PL9	/	3.3V	/
			S-TWI1-SDA	/		
			S-DJTAG-CK	/		
			S-RJTAG-CK	/		
			S-PWM-1	/		
			DMIC-CLK	/		
			S-PL-EINT9	/		
322	/	AK9	PL10	/	3.3V	/
			S-PWM-0	/		
			S-DJTAG-DO	/		
			S-RJTAG-DO	/		
			DMIC-DATA0	/		
			S-SPI0-CS0	/		
			S-PL-EINT10	/		

323	/	AJ9	PL11	/	3.3V	/
			S-IR-RX	/		
			S-DJTAG-DI	/		
			S-RJTAG-DI	/		
			DMIC-DATA1	/		
			S-SPI0-CLK	/		
			S-PL-EINT11	/		
324	/	AK7	PL12	/	3.3V	/
			S-TWI2-SCK	/		
			S-PWM-8	/		
			S-UART0-TX	/		
			DMIC-DATA2	/		
			S-SPI0-MOSI	/		
			S-PL-EINT12	/		
325	/	AJ7	PL13	/	3.3V	/
			S-TWI2-SDA	/		
			S-PWM-9	/		

			S-UART0- RX	/		
			DMIC- DATA3	/		
			S-SPI0- MISO	/		
			S-PL- EINT13	/		
326	GND	/	GND	/	/	/

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