

IDO-SOM2708-S1 核心板规格书



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核心板规格书

深圳触觉智能科技有限公司

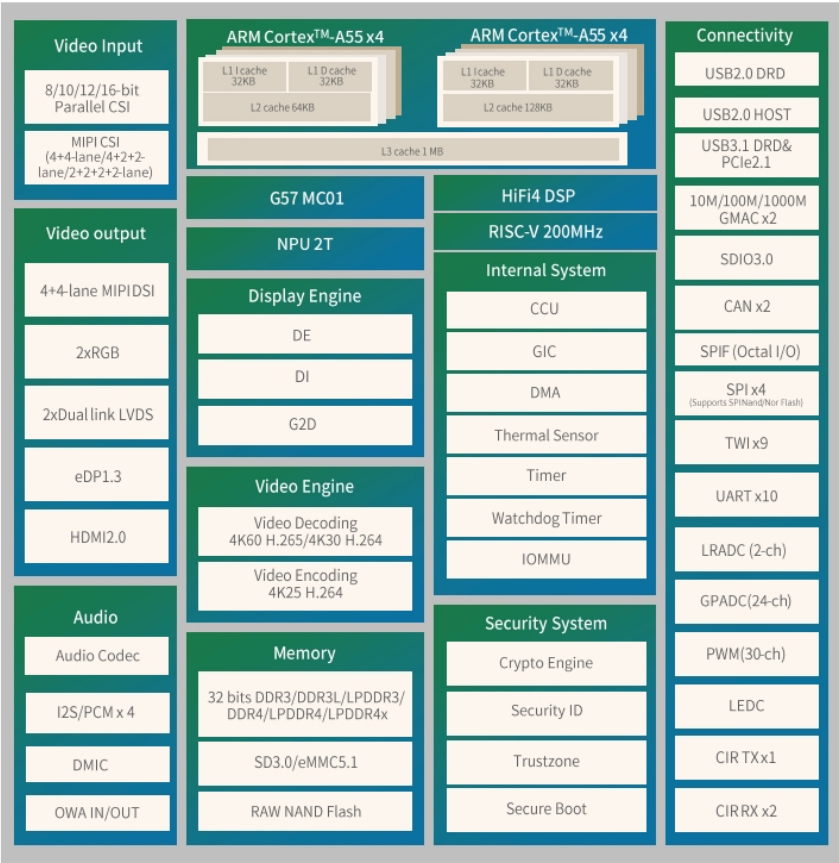
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文档修订历史

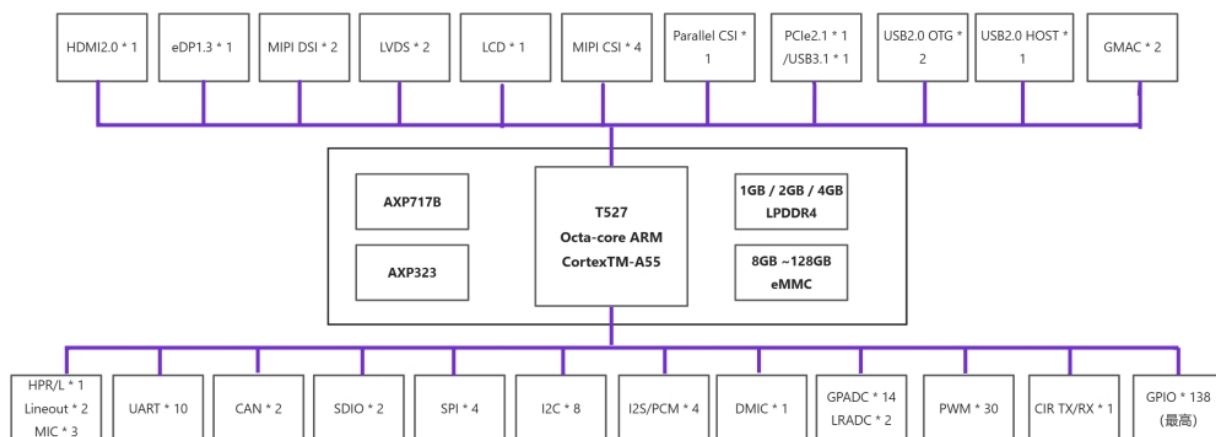
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V1.0	创建文档	ZWJ	IDO	2024/04/25
V1.1	更新文档	ZWJ	IDO	2024/05/10
V1.2	文档优化	LZR	IDO	2024/05/15
V1.3	增加核心板重量	LYT	IDO	2026/07/08

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：

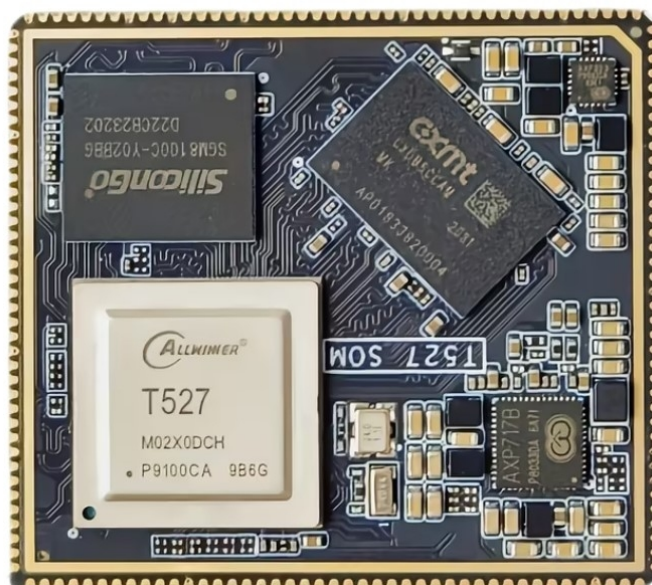


1.1 产品特点

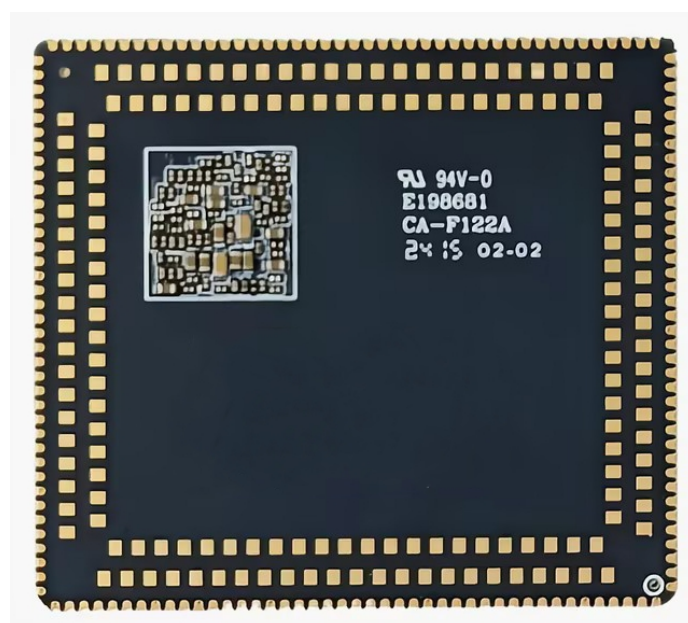
1. 处理器采用 8 核 A55 22nm 先进制程工艺；
2. 5 种显示接口：HDMI、eDP、LVDS、MIPI DSI、RGB，支持 4K+1080P 双屏异显；
3. 丰富的总线接口：2*GMAC、2*CAN、PCIe2.1/USB3.1、3*USB2.0、10*UART、30*PWM、4*SPI、8*I2C 等；
4. 核心板支持 100%全国产。

1.2 产品图片

ID0-SOM2708-S1 核心板正面，如下图所示：



ID0-SOM2708-S1 核心板背面，如下图所示：



1.3 适用场景

ID0-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
重量	10.2g

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：

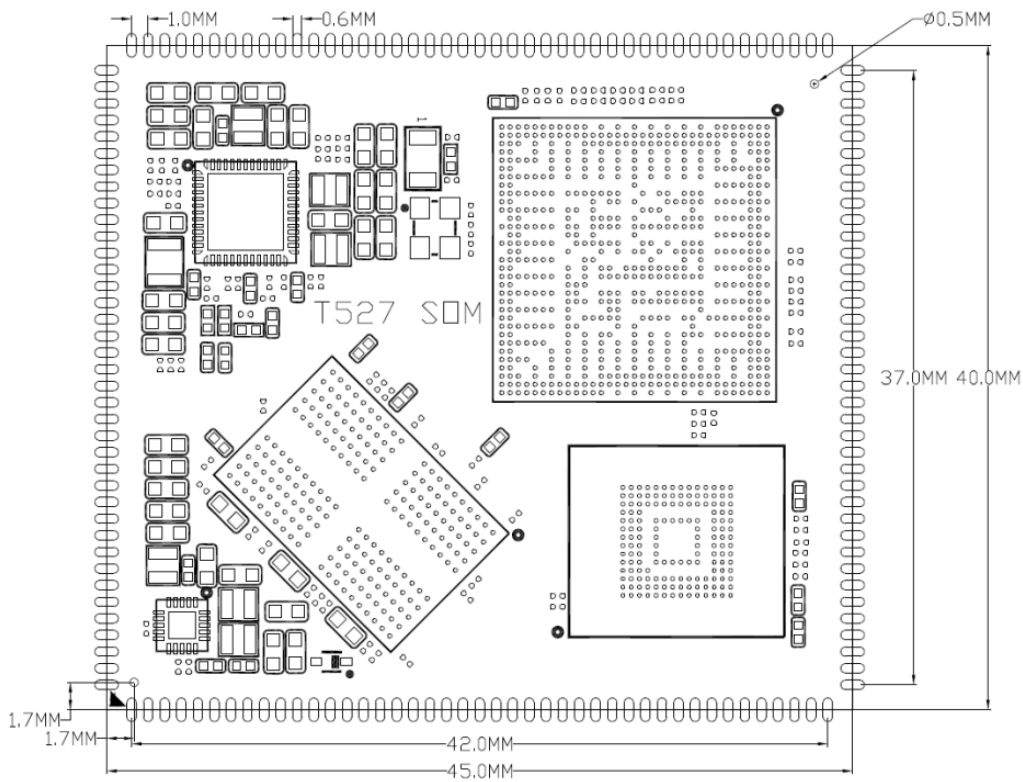
序号	操作系统	支持	说明
1	Android	•	/
2	Debian	•	/

3	Ubuntu	•	/
4	OpenHarmony	•	/

3. PCB 尺寸和电气参数

3.1 PCB 尺寸

ID0-SOM2708-S1 核心板正面尺寸，如下表所示：



ID0-SOM2708-S1 核心板背面尺寸，如下图所示：

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
ID0- SOM2708- S1-D2E16	2GB	16GB	-25℃ ~ +80℃
ID0- SOM2708- S1-D4E32	4GB	32GB	-25℃ ~ +80℃
ID0- SOM2708- S1- D2E16-I	2GB	16GB	-40℃ ~ +85℃
ID0- SOM2708- S1-	4GB	32GB	-40℃ ~ +85℃

5. 引脚定义说明

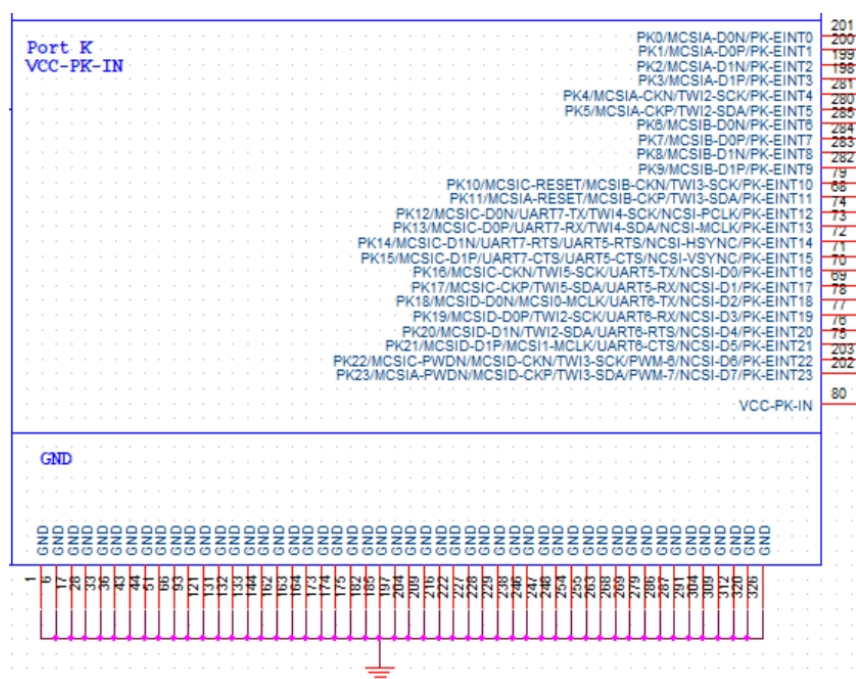
5.1 核心板引脚示意图

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	
169	PB2/UART2-RTS/SPI2-MOSI/JTAG-DO/LCD0-D8/CAN-TX0/PB-EINT2	
168	PB3/UART2-CTS/SPI2-MISO/JTAG-DI/LCD0-D9/CAN-RX0/PB-EINT3	
167	PB4/TWI1-SCK/I2S0-MCLK/TRACE-DATA2/PWM-8/HDMI-SCL/PB-EINT4	
166	PB5/TWI1-SDA/I2S0-BCLK/TRACE-CLK/PWM-9/HDMI-SDA/PB-EINT5	
165	PB6/I2S0-LRCK/TRACE-DATA0/PWM-10/HDMI-CEC/PB-EINT6	
162	PB7/OWA-IN/I2S0-DOUT0/I2S0-DIN1/LCD0-D16/PWM-11/PB-EINT7	
161	PB8/OWA-OUT/I2S0-DIN0/I2S0-DOUT1/LCD0-D17/PWM-0/PB-EINT8	
160	PB9/UART0-TX-DEBUG/TWI0-SCK/TRACE-DATA1/I2S0-DIN2/I2S0-DOUT2/PB-EINT9	
159	PB10/UART0-RX-DEBUG/TWI0-SDA/PWM-1/I2S0-DIN3/I2S0-DOUT3/PB-EINT10	
253	PB11/TWI5-SCK/UART7-RTS/SPI1-CS0/PWM-2/PB-EINT11	
252	PB12/TWI5-SDA/UART7-CTS/SPI1-CLK/PWM-3/PB-EINT12	
251	PB13/TWI4-SCK/UART7-TX/SPI1-MOSI/PWM-4/PB-EINT13	
250	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	
249	PC7/NAND-RB1/SPI0-CS1/SPIF-DQS/PC-EINT7	
248	PC12/NAND-DQS/SPI0-CLK/SPIF-CLK/PC-EINT12	Port D DCDC4 IO 3V3
27	PD0/LCD0-D2/LVDS0-D0P/DSI0-D0P/PWM-0/PD-EINT0	
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-D8/LVDS0-D3P/DSI0-D3P/PWM-6/PD-EINT6	
20	PD7/LCD0-D9/LVDS0-D3N/DSI0-D3N/PWM-7/PD-EINT7	
19	PD8/LCD0-D10/LVDS0-D4P/DSI0-D4P/PWM-8/PD-EINT8	
18	PD9/LCD0-D11/LVDS0-D4N/DSI0-D4N/PWM-9/PD-EINT9	
17	PD10/LCD0-D12/LVDS0-D5P/DSI0-D5P/PWM-10/PD-EINT10	
16	PD11/LCD0-D13/LVDS0-D5N/DSI0-D5N/PWM-11/PD-EINT11	
15	PD12/LCD0-D14/LVDS0-D6P/DSI0-D6P/PWM-12/PD-EINT12	
14	PD13/LCD0-D15/LVDS0-D6N/DSI0-D6N/PWM-13/PD-EINT13	
13	PD14/LCD0-D16/LVDS0-D7P/DSI0-D7P/PWM-14/PD-EINT14	
12	PD15/LCD0-D17/LVDS0-D7N/DSI0-D7N/PWM-15/PD-EINT15	
11	PD16/LCD0-D18/LVDS0-D8P/DSI0-D8P/PWM-16/PD-EINT16	
10	PD17/LCD0-D19/LVDS0-D8N/DSI0-D8N/PWM-17/PD-EINT17	
9	PD18/LCD0-D20/LVDS0-D9P/DSI0-D9P/PWM-18/PD-EINT18	
8	PD19/LCD0-D21/LVDS0-D9N/DSI0-D9N/PWM-19/PD-EINT19	
7	PD20/LCD0-D22/LVDS0-D10P/DSI0-D10P/PWM-20/PD-EINT20	
6	PD21/LCD0-D23/LVDS0-D10N/DSI0-D10N/PWM-21/PD-EINT21	
5	PD22/PWM-1/SPI1-HOLD/DBI-DCX/DBI-WRX/UART2-RTS/UART7-TX/TWI0-SCK/PD-EINT22	
4	PD23/PWM-0/SPI1-WP/DBI-TE/UART2-CTS/UART7-RX/TWI0-SDA/PD-EINT23	

206	PE0/MCSIA-MCLK/PE-EINT0	Port E VCC-PE-IN
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	
208	PE4/MCSIC-SDA/TWI3-SDA/UART4-CTS/PE-EINT4	
84	PE5/MCSIB-MCLK/PLL-LOCK-DBG/I2S2-MCLK/LEDC/PE-EINT5	
85	PE6/I2S2-BCLK/LCD0-TRIG/NCSI-D8/PE-EINT6	
86	PE7/I2S2-LRCK/LCD1-TRIG/NCSI-D9/PE-EINT7	
87	PE8/I2S2-DOUT0/LCD2-TRIG/NCSI-D10/PE-EINT8	
88	PE9/I2S2-DIN0/NCSI-D11/PE-EINT9	
89	PE10/MCSID-MCLK/PWM-3/NCSI-D12/PE-EINT10	
90	PE11/TWI1-SCK/UART5-RTS/SPI2-CS0/UART6-TX/NCSI-D13/PE-EINT11	
92	PE12/TWI1-SDA/UART5-CTS/SPI2-CLK/UART6-RX/NCSI-D14/PE-EINT12	
93	PE13/TWI4-SCK/UART5-TX/SPI2-MOSI/UART6-RTS/CSI0-XVS-FSYNC/PE-EINT13	
288	PE14/TWI4-SDA/UART5-RX/SPI2-MISO/UART6-CTS/CSI1-XVS-FSYNC/PE-EINT14	
83	PE15/MCSIC-MCLK/PWM-2/NCSI-D15/PE-EINT15	
59	VCC-PE-IN	
60	PF0/SDC0-D1/JTAG-M9/TRACE-DATA2/I2S3-DIN0/I2S3-DOUT1/PF-EINT0	Port F IO 3V3
61	PF1/SDC0-D0/JTAG-D1/TRACE-DATA1/I2S3-DOUT0/I2S3-DIN1/PF-EINT1	
63	PF2/SDC0-CLK/UART0-TX/I2S3-DIN2/I2S3-DOUT2/PF-EINT2	
64	PF3/SDC0-CMD/JTAG-DO/TRACE-DATA0/I2S3-LRCK/PF-EINT3	
66	PF4/SDC0-D3/UART0-RX/I2S3-DIN3/I2S3-DOUT3/PF-EINT4	
58	PF5/SDC0-D2/JTAG-CK/TRACE-CLK/I2S3-BCLK/PF-EINT5	
62	PF6/SDC0-DET/I2S3-MCLK/PF-EINT6	
113	PG0/SDC1-CLK/PG-EINT0	Port G BLD01 S3 IO 1V8
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	
106	PG7/UART1-RX/PG-EINT7	
104	PG8/UART1-RTS/PG-EINT8	
221	PG9/UART1-CTS/PG-EINT9	
220	PG10/I2S1-MCLK/PG-EINT10	
219	PG11/BT-PCM-CLK/I2S1-BCLK/PG-EINT11	
218	PG12/BT-PCM-SYNC/I2S1-LRCK/PG-EINT12	
217	PG13/BT-PCM-DOUT/I2S1-DOUT0/I2S1-DIN1/PG-EINT13	
192	PG14/BT-PCM-DIN/I2S1-DIN0/I2S1-DOUT1/PG-EINT14	
193	PH0/TWI0-SCK/RGMII0-RXD1/RMII0-RXD1/PH-EINT0	Port H CLD03 IO 3V3
194	PH1/TWI0-SDA/RGMII0-RXD0/RMII0-RXD0/PH-EINT1	
274	PH2/TWI1-SCK/CPU-CUR-W/I2S2-DIN3/RGMII0-RXCTL/RMII0-CRS-DV/I2S2-DOUT3/PH-EINT2	
271	PH3/TWI1-SDA/IR-TX/I2S2-DIN2/RGMII0-CLKIN/RMII0-RXER/I2S2-DOUT2/PH-EINT3	
275	PH4/UART3-TX/SPI1-CS0/CPU-CUR-W/RGMII0-TXD1/RMII0-TXD1/PH-EINT4	
273	PH5/UART3-RX/SPI1-CLK/LEDC/RGMII0-TXD0/RMII0-TXD0/PH-EINT5	
276	PH6/UART3-RTS/SPI1-MOSI/OWA-IN/RGMII0-TXCK/RMII0-TXCK/PH-EINT6	
196	PH7/UART3-CTS/SPI1-MISO/OWA-OUT/RGMII0-TXCTL/RMII0-TXEN/PH-EINT7	
278	PH8/PHYRSTB/DMIC-CLK/SPI2-CS0/I2S2-MCLK/I2S2-DIN2/PH-EINT8	
277	PH9/DMIC-DATA0/SPI2-CLK/I2S2-BCLK/RGMII0-MDC/PH-EINT9	
197	PH10/DMIC-DATA1/SPI2-MOSI/I2S2-LRCK/RGMII0-MDIO/PH-EINT10	
198	PH11/PCIE21-PERSTN/DMIC-DATA2/SPI2-MISO/I2S2-DOUT0/I2S2-DIN1/PCIE0-PERSTN/PH-EINT11	
195	PH12/PCIE21-WAKEN/DMIC-DATA3/TWI3-SCK/I2S2-DIN0/I2S2-DOUT1/PCIE0-WAKEN/PH-EINT12	
189	PH13/TWI3-SDA/I2S3-MCLK/RGMII0-EPHY-25M/PH-EINT13	
190	PH14/I2S3-BCLK/RGMII0-RXD3/RMII0-NUL/PH-EINT14	
191	PH15/I2S3-LRCK/RGMII0-RXD2/RMII0-NUL/PH-EINT15	
270	PH16/I2S3-DOUT0/I2S3-DIN1/RGMII0-RXCK/RMII0-NUL/CLK-FANOUT0/PH-EINT16	
272	PH17/I2S3-DOUT1/I2S3-DIN0/RGMII0-TXD3/RMII0-NUL/PH-EINT17	
188	PH18/IR-TX/I2S3-DOUT2/I2S3-DIN2/RGMII0-TXD2/RMII0-NUL/PH-EINT18	
189	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	Port I DCDC4 IO 3V3
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	
151	PI5/UART5-CTS/SPI1-MISO/PWM-6/I2S2-DIN0/I2S2-DOUT1/PI-EINT5	
152	PI6/UART6-TX/UART4-RTS/PWM-7/SPI2-CS0/PI-EINT6	
153	PI7/UART6-RX/UART4-CTS/PWM-8/SPI2-CLK/PI-EINT7	
154	PI8/TWI5-SCK/IR-RX/PWM-9/SPI2-MOSI/PI-EINT8	
155	PI9/TWI5-SDA/DMIC-DATA2/PWM-10/PI-EINT9	
156	PI10/OWA-OUT/DMIC-DATA1/PWM-11/I2S2-MCLK/PI-EINT10	
157	PI11/UART3-TX/DMIC-DATA0/PWM-12/PI-EINT11	
158	PI12/UART3-RX/PWM-13/SPI2-MISO/PI-EINT12	
159	PI13/UART6-CTS/DMIC-DATA3/PWM-14/I2S2-MCLK/PI-EINT13	
160	PI14/UART6-RTS/DMIC-CLK/PWM-15/PI-EINT14	
161	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	Port J DCDC4 IO 3V3
94	PJ1/LCD1-D1/LVDS2-D0N/RGMII1-RXD0/RMII1-RXD0/PJ-EINT1	
97	PJ2/LCD1-D2/LVDS2-D1P/RGMII1-RXCTL/RMII1-CRS-DV/PJ-EINT2	
96	PJ3/LCD1-D3/LVDS2-D1N/RGMII1-CLKIN/RMII1-RXER/PJ-EINT3	
99	PJ4/LCD1-D4/LVDS2-D2P/RGMII1-TXD1/RMII1-TXD1/PJ-EINT4	
98	PJ5/LCD1-D5/LVDS2-D2N/RGMII1-TXD0/RMII1-TXD0/PJ-EINT5	
101	PJ6/LCD1-D6/LVDS2-CKP/RGMII1-TXCK/RMII1-TXCK/PJ-EINT6	
100	PJ7/LCD1-D7/LVDS2-CKN/RGMII1-TXCTL/RMII1-TXEN/PJ-EINT7	
103	PJ8/LCD1-D8/LVDS2-D3P/RGMII1-MDC/PJ-EINT8	
102	PJ9/LCD1-D9/LVDS2-D3N/RGMII1-MDIO/PJ-EINT9	
215	PJ10/LCD1-D10/LVDS3-D0P/RGMII1-EPHY-25M/PJ-EINT10	
214	PJ11/LCD1-D11/LVDS3-D0N/RGMII1-RXD3/RMII1-NUL/PJ-EINT11	
213	PJ12/LCD1-D12/LVDS3-D1P/RGMII1-RXD2/RMII1-NUL/PJ-EINT12	
212	PJ13/LCD1-D13/LVDS3-D1N/RGMII1-RXCK/RMII1-NUL/PJ-EINT13	
293	PJ14/LCD1-D14/LVDS3-D2P/RGMII1-TXD3/RMII1-NUL/PJ-EINT14	
210	PJ15/LCD1-D15/LVDS3-D2N/RGMII1-TXD2/RMII1-NUL/PJ-EINT15	
211	PJ16/LCD1-D16/LVDS3-CKP/PJ-EINT16	
295	PJ17/LCD1-D17/LVDS3-CKN/PJ-EINT17	
294	PJ18/LCD1-D18/LVDS3-D3P/PJ-EINT18	
294	PJ19/LCD1-D19/LVDS3-D3N/PJ-EINT19	
303	PJ20/LCD1-D20/UART2-TX/UART3-RTS/SPI0-CS0/PJ-EINT20	
302	PJ21/LCD1-D21/UART2-RX/UART3-CTS/SPI0-CLK/PJ-EINT21	
301	PJ22/LCD1-D22/UART2-RTS/UART3-TX/SPI0-MOSI/PJ-EINT22	
300	PJ23/LCD1-D23/UART2-CTS/UART3-RX/SPI0-MISO/PJ-EINT23	
299	PJ24/LCD1-CLK/TWI4-SCK/UART4-TX/SPI0-CS1/PJ-EINT24	
298	PJ25/LCD1-DE/TWI4-SDA/UART4-RX/SPI0-WP/PJ-EINT25	
297	PJ26/LCD1-HSYNC/TWI5-SCK/UART4-RTS/SPI0-HOLD/PJ-EINT26	
296	PJ27/LCD1-VSYNC/TWI5-SDA/UART4-CTS/PJ-EINT27	

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	AP-CK24M-OUT	311
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	GPADC5	141
	GPADC6	142
	GPADC7	143
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	GPADC9	231
	GPADC10	232
	GPADC11	233
	GPADC12	234
	GPADC13	235
	GPADC14	236
	GPADC15	237
	GPADC16	313
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	GPADC19	316
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	MICIN1N	119
	MICIN1P	118
	MICIN2N	308
	MICIN2P	307
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	LINEOUTLP	226
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	LINEOUTRP	224
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	HPOUTR	117
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		114
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	EDP-TX0P	180
	EDP-TX0N	179
	EDP-TX1P	178
	EDP-TX1N	267
	EDP-TX2P	266
	EDP-TX2N	265
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	EDP-TX3N	177
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	HTX0N	40
	HTX1P	39
	HTX1N	38
	HTX2P	37
	HTX2N	36
	HTX3P	35
	HTX3N	34
	HTXCN	
		32
	HSCL	31
	HSDA	30
	HCEC	29
	HHPD	

AUDIO		MBIAS	120
		MICIN1N	119
		MICIN1P	118
			308
		MICIN2N	307
		MICIN2P	
			306
		MICIN3N	305
		MICIN3P	
			226
		LINEOUTLP	225
		LINEOUTLN	224
		LINEOUTRP	223
		LINEOUTRN	
			116
		HPOUTR	117
		HPOUTFB	115
		HPOUTL	
			114
		HP-DET	
eDP1.3 2.5K@60Hz			181
		EDP-TX0P	180
		EDP-TX0N	179
		EDP-TX1P	178
		EDP-TX1N	267
		EDP-TX2P	266
		EDP-TX2N	265
		EDP-TX3P	264
		EDP-TX3N	177
		EDP-AUXP	176
		EDP-AUXN	
		EDP-HPD	183
HDMI2.0 TX 3840X2160@60Hz			42
		HTX0P	41
		HTX0N	40
		HTX1P	39
		HTX1N	38
		HTX2P	37
		HTX2N	36
		HTX0P	35
		HTXCN	34
		HSCL	32
		HSDA	31
		HCEC	30
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		PM2/BT-RESETN/S-TWI1-SCK/S-RJTAG-MS/S-PWM-6/S-PM-EINT2	124
		PM3/AP-WAKE-BT/S-TWI1-SDA/S-RJTAG-CK/S-PWM-7/S-PM-EINT3	123
		PM4/BT-WAKE-AP/S-PWM-8/S-RJTAG-DO/S-TWI2-SCK/S-PM-EINT4	122
		PM5/USB0-VBUSDET/S-IR-RX/S-RJTAG-DI/S-TWI2-SDA/S-PWM-9/S-PM-EINT5	
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		PL3/S-UART0-RX-DEBUG/S-UART1-RX/S-PWM-3/S-PL-EINT3	241
		PL4/S-JTAG-MS/S-CAN-TX0/S-PWM-4/I2S0-BCLK/S-PL-EINT4	242
		PL5/S-JTAG-CK/S-CAN-RX0/S-PWM-5/I2S0-LRCK/DMIC-DATA2/S-PL-EINT5	243
		PL6/S-JTAG-DO/S-PWM-6/I2S0-DIN1/I2S0-DOUT0/DMIC-DATA2/S-PL-EINT6	244
		PL7/S-JTAG-DI/S-PWM-7/I2S0-DOUT1/I2S0-DIN0/DMIC-DATA1/S-PL-EINT7	245
		PL8/S-TWI1-SCK/S-DJTAG-MS/S-RJTAG-MS/I2S0-MCLK/DMIC-DATA0/S-PL-EINT8	321
		PL9/S-TWI1-SDA/S-DJTAG-CK/S-RJTAG-CK/S-PWM-1/DMIC-CLK/S-PL-EINT9	322
		PL10/S-PWM-0/S-DJTAG-DO/S-RJTAG-DO/DMIC-DATA0/S-SPI0-CS0/S-PL-EINT10	323
		PL11/S-IR-RX/S-DJTAG-DI/S-RJTAG-DI/DMIC-DATA1/S-SPI0-CLK/S-PL-EINT11	324
		PL12/S-TWI2-SCK/S-PWM-8/S-UART0-TX/DMIC-DATA2/S-SPI0-MOSI/S-PL-EINT12	325
		PL13/S-TWI2-SDA/S-PWM-9/S-UART0-RX/DMIC-DATA3/S-SPI0-MISO/S-PL-EINT13	



5.2 核心板引脚列表

核心板引脚列表如下图所示：

Num	Pin Name	BGA636Ba11	BGA636Ba11		Power Rail	Comment
			Signal Name	Mode		
1	/	/	GND	/	/	/
2	/	L32	PD23	/	3.3V	/
			PWM-0	/		
			SPI1-WP	/		
			DBI-TE	/		
			UART2-CTS	/		
			UART7-RX	/		

			TWIO-SDA	/		
			PD-EINT23	/		
3	/	L31	PD22	/	3.3V	/
			PWM-1	/		
			SPI1-HOLD	/		
			DBI-DCX	/		
			DBI-WRX	/		
			UART2-RTS	/		
			UART7-TX	/		
			TWIO-SCK	/		
			PD-EINT22	/		
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	/		
9	/	J33	PD17	/	3.3V	/
			LCD0-D23	/		
			LVDS1-CKN	/		
			DSI1-D2N	/		
			PWM-17	/		
			UART3-CTS	/		
			PD-EINT17	/		
10	/	J32	PD16	/	3.3V	/
			LCD0-D22	/		
			LVDS1-CKP	/		
			DSI1-D2P	/		
			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-SD0	/		
			PD-EINT12	/		
15	/	G33	PD11	/	3.3V	/
			LCD0-D15	/		
			LVDS1-D0N	/		
			DSI1-D0N	/		

			PWM-11	/		
			SPI1-CLK	/		
			DBI-SCLK	/		
			PD-EINT11	/		
16	/	G32	PD10	/	3.3V	/
			LCD0-D14	/		
			LVDS1-D0P	/		
			DSI1-D0P	/		
			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	/		
			PD-EINT4	/		
24	/	E31	PD3	/	3.3V	/
			LCD0-D5	/		
			LVDS0-D1N	/		
			DSI0-D1N	/		
			PWM-3	/		

			PD-EINT3	/		
25	/	E30	PD2	/	3.3V	/
			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-EINTOPD0	/		
			LCD0-D2	/		
			LVDS0-D0P	/		
			DSIO-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	/		
60	/	A20	PF-EINT0	/	3.3V	/
			PF1	/		
			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	/		
			MCSIO-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_OUT_S3	/	1.8V	AXP717B PIN
82	/	/	VCC3V3_OUT_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	/		
90	/	C1	PE-EINT11	/	1.8V/3.3V	/
			PE12	/		
			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	/		

			RGMI11-RXCTL	/		
			RMII1-CRS-DV	/		
			PJ-EINT2	/		
98	/	F2	PJ5	/	3.3V	/
			LCD1-D5	/		
			LVDS2-D2N	/		
			RGMI11-TXD0	/		
			RMII1-TXD0	/		
			PJ-EINT5	/		
99	/	F1	PJ4	/	3.3V	/
			LCD1-D4	/		
			LVDS2-D2P	/		
			RGMI11-TXD1	/		
			RMII1-TXD1	/		
			PJ-EINT4	/		
100	/	G2	PJ7	/	3.3V	/
			LCD1-D7	/		
			LVDS2-CKN	/		

			RGMII1-TXCTL	/		
			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	/		
			RGMII1-MDIO	/		
			PJ-EINT9	/		
103	/	H2	PJ8	/	3.3V	/
			LCD1-D8	/		
			LVDS2-D3P	/		
			RGMII1-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	/		
			S-PM-EINT5	/		
123	/	AN4	PM4	/	1.8V	/
			BT-WAKE-AP	/		
			S-PWM-8	/		
			S-RJTAG-DO	/		
			S-TWI2-SCK	/		

			S-PM-EINT4	/		
124	/	AM3	PM3	/	1.8V	/
			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	/		
			S-PM-EINT2	/		
126	/	AN2	PM1	/	1.8V	/
			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	/		
			PB-EINT5	/		
168	/	N31	PB4	/	3.3V	/
			TWI1-SCK	/		
			I2S0-MCLK	/		
			TRACE-DATA2	/		
			PWM-8	/		
			HDMI-SCL	/		
			PB-EINT4	/		
169	/	M32	PB3	/	3.3V	/
			UART2-CTS	/		
			SPI2-MISO	/		
			JTAG-DI	/		
			LCD0-D9	/		
			CAN-RX0	/		

			PB-EINT3	/		
170	/	M31	PB2	/	3.3V	/
			UART2-CTS	/		
			SPI2-MOSI	/		
			JTAG-D0	/		
			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-WAKE _n	/		
			DMIC-DATA3	/		
			TWI3-SCK	/		
			I2S2-DIN0	/		
			I2S2-DOUT1	/		
			PCIE0-WAKEN	/		
			PH-EINT12	/		
187	/	A16	PH11	/	3.3V	/
			PCIE21-PERST _n	/		
			DMIC-DATA2	/		
			SPI2-MISO	/		
			I2S2-DOUT0	/		
			I2S2-DIN1	/		
			PCIE0-PERST _N	/		
			PH-EINT11	/		
188	/	C13	PH19	/	3.3V	/
			PCIE21-CLKREQ _n	/		
			IR-RX	/		

			I2S3-DOUT3	/		
			I2S3-DIN3	/		
			LEDC	/		
			PCIE0-CLKREQN	/		
			PH-EINT19	/		
189	/	E14	PH14	/	3.3V	/
			I2S3-BCLK	/		
			RGMII0-RXD3	/		
			RMIIO-NULL	/		
			PH-EINT14	/		
190	/	D14	PH15	/	3.3V	/
			I2S3-BCLK	/		
			RGMII0-RXD2	/		
			RMIIO-NULL	/		
			PH-EINT15	/		
191	/	B14	PH16	/	3.3V	/
			I2S3-DOUT0	/		
			I2S3-DIN1	/		

			RGMII0-RXCK	/		
			RMIIO-NULL	/		
			CLK-FANOUT0	/		
			PH-EINT16	/		
192	/	F18	PH0	/	3.3V	/
			TWIO-SCK	/		
			RGMII0-RXD1	/		
			RMIIO-RXD1	/		
			PH-EINT0	/		
193	/	E18	PH1	/	3.3V	/
			TWIO-SDA	/		
			RGMII0-RXD0	/		
			RMIIO-RXD0	/		
			PH-EINT1	/		
194	/	D18	PH2	/	3.3V	/
			TWI1-SCK	/		
			CPU-CUR-W	/		
			I2S2-DIN3	/		

			RGMIIO-RXCTL	/		
			RMII0-CRS-DV	/		
			I2S2-DOUT3	/		
			PH-EINT2	/		
195	/	B15	PH13	/	3.3V	/
			TWI3-SDA	/		
			I2S3-MCLK	/		
			RGMIIO-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	/
			MCSIO-MCLK	/		
			PE-EINT0	/		
			MCSIO-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	/		
			RMII1-NULL	/		
			PJ-EINT13	/		
213	/	J4	PJ12	/	3.3V	/
			LCD1-D12	/		
			LVDS3-D1P	/		
			RGMII1-RXD2	/		
			RMII1-NULL	/		
			PJ-EINT12	/		
214	/	G5	PJ11	/	3.3V	/
			LCD1-D11	/		
			LVDS3-D0N	/		
			RGMII1-RXD3	/		
			RMII1-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	/		
218	/	U2	PG13	/	1.8V	/
			BT-PCM-DOUT	/		
			I2S1-DOUT0	/		
			I2S1-DIN1	/		
			PG-EINT13	/		
219	/	U3	PG12	/	1.8V	/

			BT-PCM-SYNC	/		
			I2S1-LRCK	/		
			PG-EINT12	/		
220	/	U4	PG11	/	1.8V	/
			BT-PCM-CLK	/		
			I2S1-BCLK	/		
			PG-EINT11	/		
221	/	U5	PG10	/	1.8V	/
			I2S1-MCLK	/		
			PG-EINT10	/		
222	GND	/	GND	/	/	/
223	/	AH1	LINEOUTRN	/	/	/
224	/	AH2	LINEOUTRP	/	/	/
225	/	AG1	LINEOUTLN	/	/	/
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-D0	/		
			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	/		
253	/	U30	PC2	/	1.8V	/
			NAND-CLE	/		
			SPI0-MOSI	/		
			SPIF-MOSI	/		
			PC-EINT2	/		
254	GND	/	GND	/	/	/
255	GND	/	GND	/	/	/
256	/	R33	PB14	/	3.3V	/
			TWI4-SDA	/		
			UART7-RX	/		
			SPI1-MISO	/		
			PWM-5	/		
			PB-EINT14	/		
257	/	R32	PB13	/	3.3V	/

			TWI4-SCK	/		
			UART7-TX	/		
			SPI1-MOSI	/		
			PWM-4	/		
			PB-EINT13	/		
258	/	R31	PB12	/	3.3V	/
			TWI5-SDA	/		
			UART7-CTS	/		
			SPI1-CLK	/		
			PWM-3	/		
			PB-EINT12	/		
259	/	R30	PB11	/	3.3V	/
			TWI5-SCK	/		
			UART7-RTS	/		
			SPI1-CS0	/		
			PWM-2	/		
			PB-EINT11	/		
260	/	R29	PB10	/	3.3V	/

			UART0-RX	/		
			TWI0-SDA	/		
			PWM-1	/		
			I2S0-DIN3	/		
			I2S0-DOUT3	/		
			PB-EINT10	/		
261	/	R28	PB9	/	3.3V	/
			UART0-TX	/		
			TWI0-SCK	/		
			TRACE-DATA1	/		
			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-NUL	/		
			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	/		
			RGMIIO-TXCTL	/		
			RMII0-TXEN	/		
			PH-EINT7	/		
277	/	B16	PH10	/	3.3V	/
			DMIC-DATA1	/		
			SPI2-MOSI	/		
			I2S2-LRCK	/		
			RGMIIO-MDIO	/		
			PH-EINT10	/		
278	/	C16	PH9	/	3.3V	/
			DMIC-DATA0	/		
			SPI2-CLK	/		
			I2S2-BCLK	/		
			RGMIIO-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	/	/	/