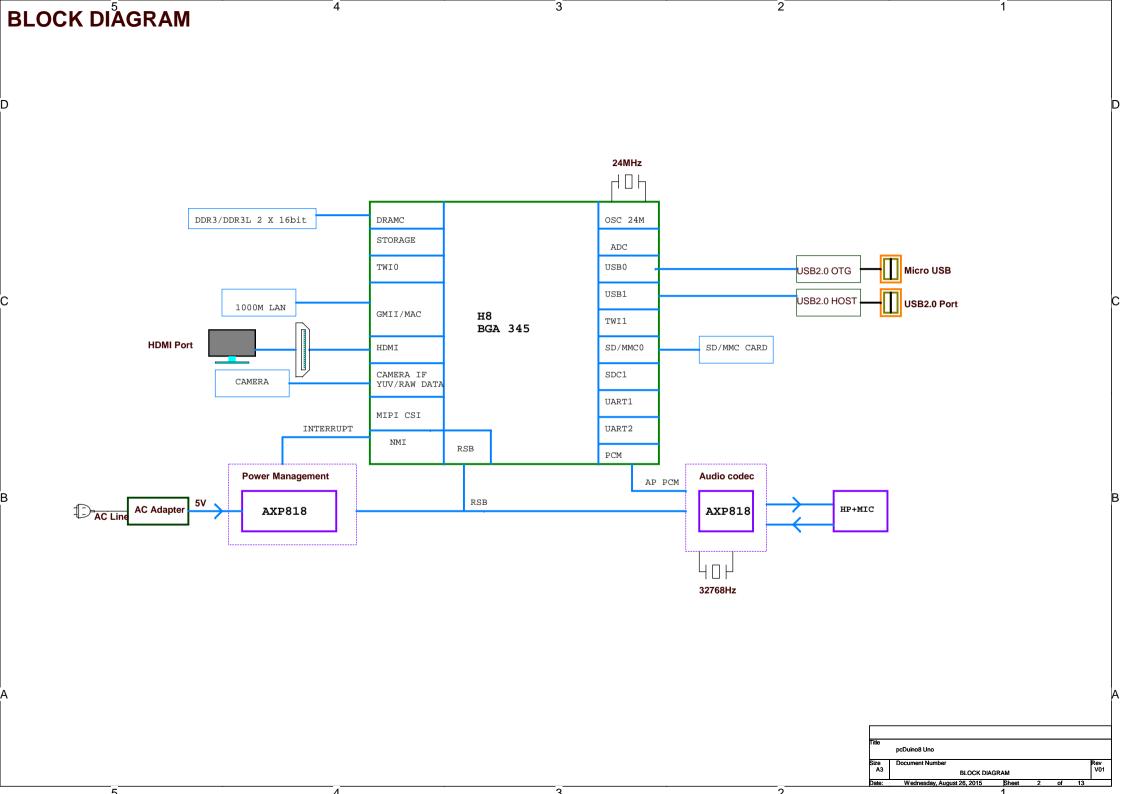
**REVISION** HISTORY

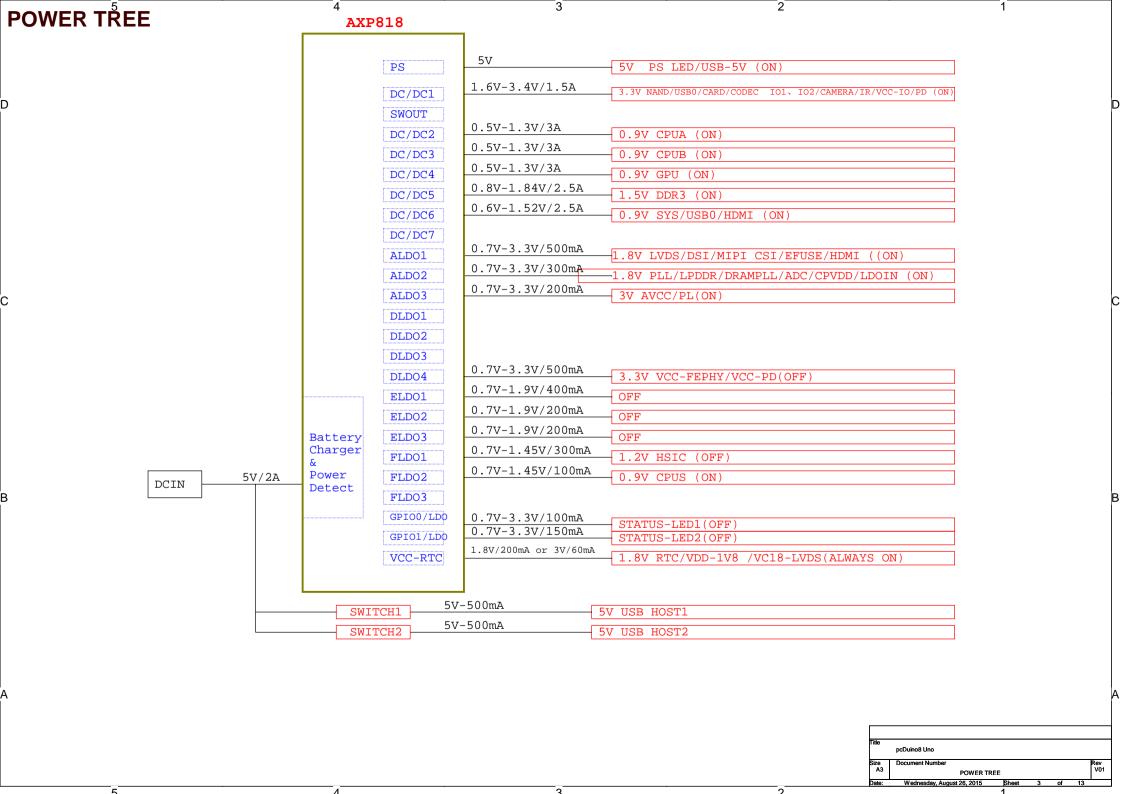
	Revision	Description	Date	Drawn	Checked
Schematics Index:	Ver 01	Draft	2015.07.29		
P01: REVISION HISTORY P02: BLOCK DIAGRAM					
P03: POWER TREE P04: GPIO ASSIGNMENT					

P05: DDR3\_16X2 P06: CPU P07: POWER P08: HDMI-CAMERA P09: USB P10: CARD-IR-KEY-LED-DEBUG P11: CODEC P12: MAC-FEPHY

P13: CONN

pcDuino8 Uno Document Number REVISION HISTORY





**GPIO ASSIGNMENT** 

PIN	Define	Function
PB0	UART2_TX	GPI01
PB1	UART2_RX	GPIO2
PB2	UART2_RTS	GPIO3
PB3	UART2_CTS	
PB4	I2S-LRCK	
PB5	I2S-BCLK	
РВ6	I2S-DOUT	I2S
PB7	I2S-DIN	
PB8	I2S-MCLK	1
PB9	UART0-TX	UART0
PB10	UART0-RX	DEBUG

PIN	Define	Function
PC0	NWE	
PC1	NALE	
PC2	NCLK	
PC3	NCE1	
PC4	NCE0	
PC5	NRE/CLK	
PC6	NRB0/CMD	
PC7	NRB1	
PC8	NDQ0/D0	NC
PC9	NDQ1/D1	
PC10	NDQ2/D2	
PC11	NDQ3/D3	
PC12	NDQ4/D4	
PC13	NDQ5/D5	
PC14	NDQ6/D6	
PC15	NDQ7/D7	
PC16	NDQS/RST	
PC17	NCE2	
PC18	NCE3	

PIN .	Define	Function
PD2	GRXD3	
PD3	GRXD2	
PD4	GRXD1	
PD5	GRXD0	
PD6	GRXCK	
PD7	ERXDV	
PD10	ERXERR	
PD11	GTXD3	GMII
PD12	GTXD2	EMAC
PD13	GTXD1	EMAC
PD14	GTXD0	
PD15	ECRS	
PD18	ETXCK	
PD19	ETXEN	
PD20	ETXERR	
PD21	ECOL	
PD22	GMDC	
PD23	GMDIO	
PD24	TX-LED	
PD25	PWM3	GPIO
PD26	PWM4	
PD27	GPIO0	GPIO
PD28	PWM2	PWM
PD29	RX-LED	GPIO

PIN	Define	Function
PE0	AP-CSI-PLK	
PE1	CSIO-MCLK	
PE2	AP-CSI-HSYNC	
PE3	AP-CSI-VSYNC	
PE4	GM-RST1	
PE5	CSIO-PWR-EN	
PE6	AP-CSI-D2	
PE7	AP-CSI-D3	CAMERA
PE8	AP-CSI-D4	IF
PE9	AP-CSI-D5	
PE10	AP-CSI-D6	
PE11	AP-CSI-D7	
PE12	AP-CSI-D8	
PE13	AP-CSI-D9	
PE14	CSI-SCK	
PE15	CSI-SDA	
PE16		
PE17		
PE18		
PE19		

PIN	Define	Function
PF0	SDC0-D1	
PF1	SDC0-D0	SDIO0
PF2	SDC0-CLK	TF CARD
PF3	SDC0-CMD	
PF4	SDC0-D3	
PF5	SDC0-D2	
PF6	SDC0-DET	7

	Define	Function
PG0		
PG1		GPIO
PG2		1
PG3		
PG4		1
PG5		1
PG6	SPI1_CS	
PG7	SPI1_CLK	SPI1
PG8	SPI1_MOSI	SPII
PG9	SPI1_MISO	1
PG10	UART3-TX	UART3
PG11	UART3-RX	UARIS
PG12		
PG13		

PIN	Define	Function
PH0	TWI0-SCK	CONN
PH1	TWI0-SDA	COIVIN
PH2	TWI1-SCK	CONN
PH3	TWI1-SDA	COIVIN
PH4	TWI2-SCK	
PH5	TWI2-SDA	
РН6	HSCL	
PH7	HSDA	HDMI
PH8	HCEC	
PH9		
PH10		
PH11		

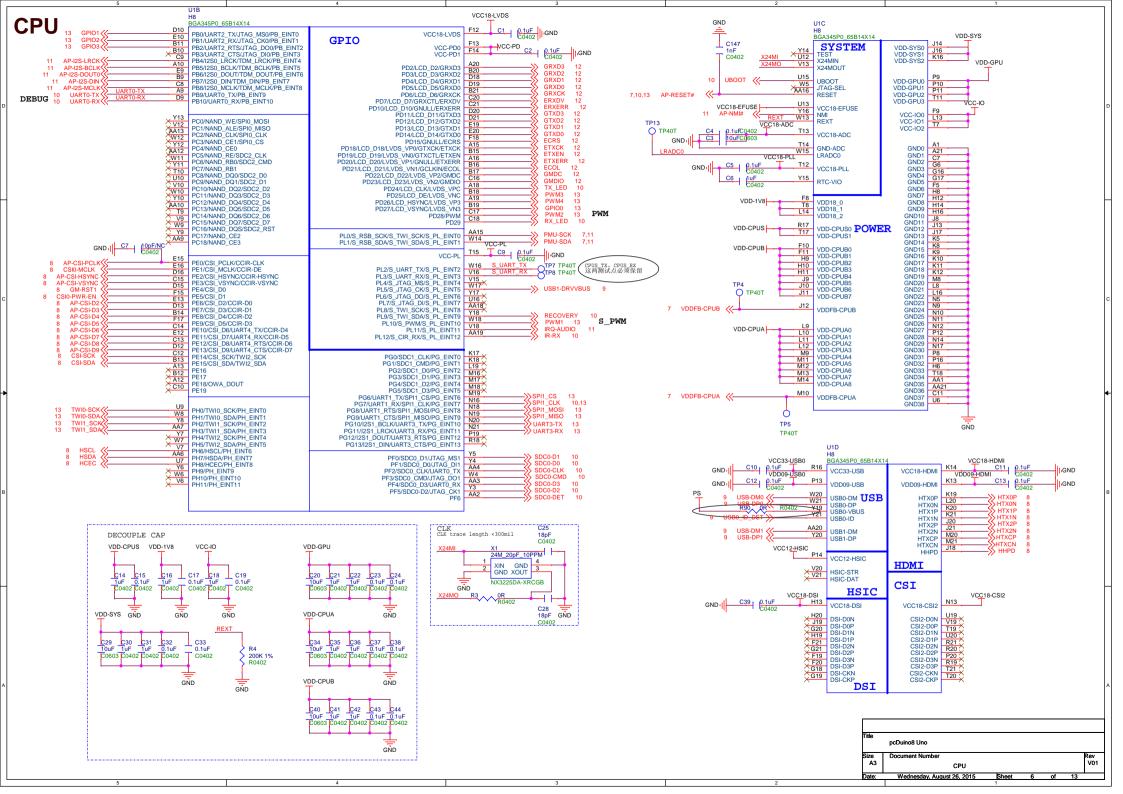
PIN	Define	Function
PL0	PMU-SCK	PMU+
PL1	PMU-SDA	CODEC
PL2	S_UART_TX	CPU
PL3	S_UART_RX	DEBUG
PL4		
PL5	USB0-DRVVBUS	USB0_EN
PL6		
PL7		
PL8		
PL9	RECOVERY	KEY
PL10	PWM1	S_PWM
PL11	IRQ-AUDIO	CODEC
PL12	IR-RX	IR

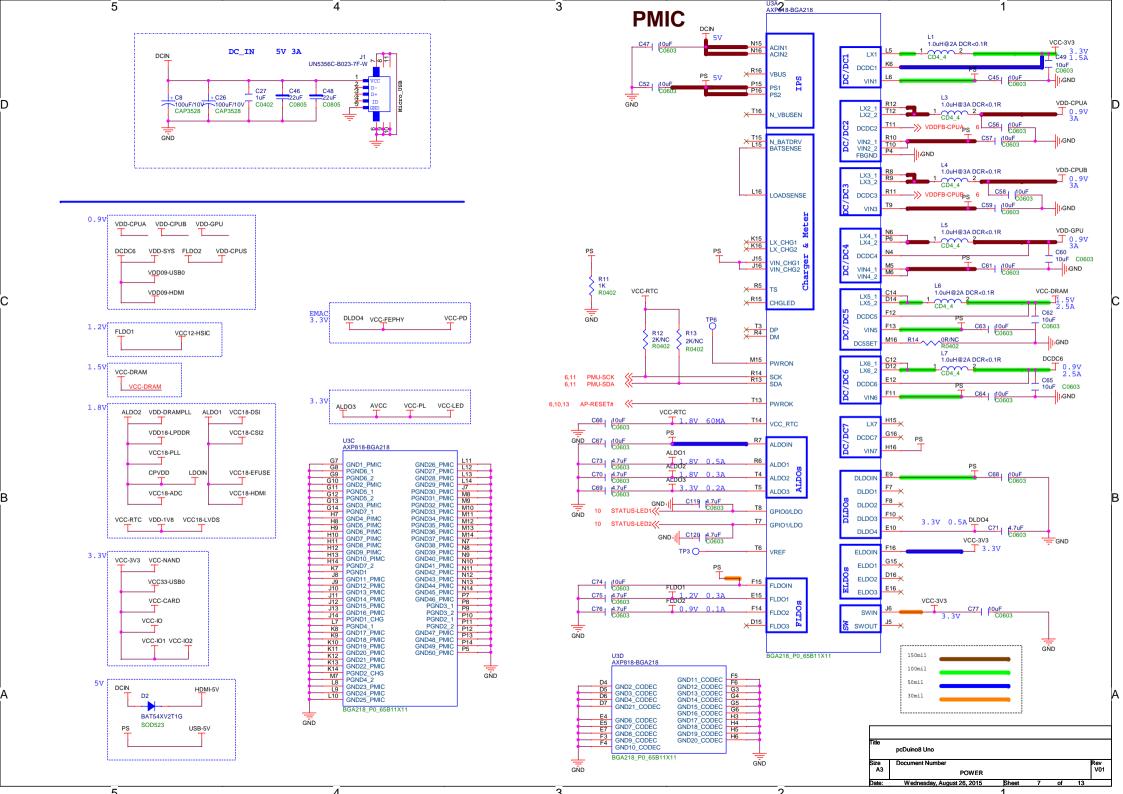
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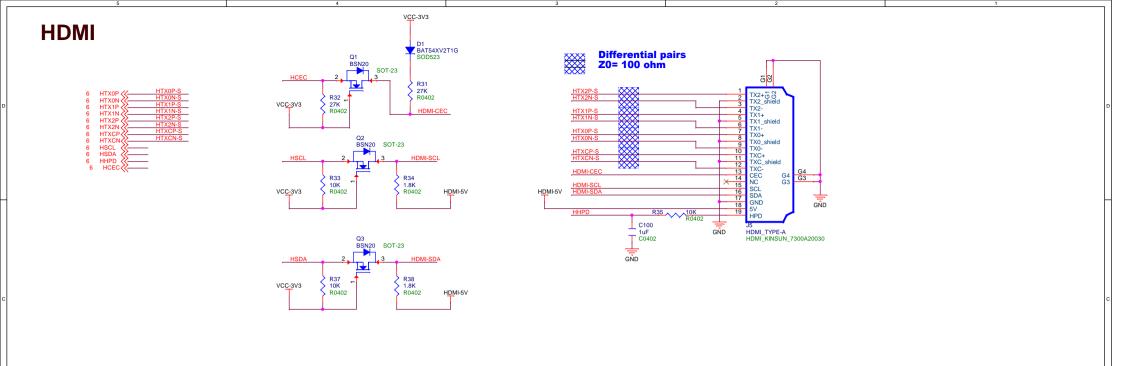
PIN	Define	Function
GPI00	STATUS-LED1	TED
GPI01	STATUS-LED2	ппр

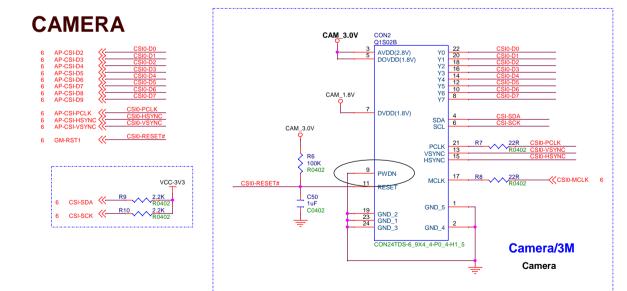
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	pcDuino8 Uno					
Size A3	Document Number GPIO ASSIG	SNMENT				Rev V01
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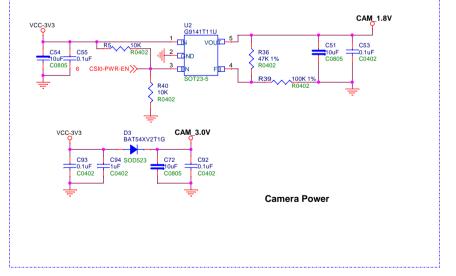
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C1 VDD#1
C1 VDD#2
C1 VDD#2
C1 VDD#3
D2 VDD#3
D2 VDD#3
D4 VDD#5
D8 VDD#5
D8 VDD#5
C3 VDD#5
C3 VDD#8
C3 VDD#8
C4 VDD#3
C7 VDD#4
C7 SDQ30 SRST SRST SDQ31 VCC-DRAMI VDDQ#1 RESET VCC-DRAM RESET SODT0 VDDQ#2 VDDQ#3 ZQ 70 SDQS0 SODT1 D2 H2 A8 H9 E9 C9 N1 R1 B2 K2 G7 K8 D9 N9 VDDQ#3 VDDQ#4 VDDQ#5 VDDQ#6 VDDQ#7 SDQS1 SDQS2 DR1 DR2 240R 1% R0402 R0402 DR3 240R 1% R0402 DR4 240R 1% R0402 SCKE0 VSSQ#1 VSSQ#1 VSSQ#2 VSSQ#3 VSSQ#2 VSSQ#3 SDQS3 SCKE1 P6 E7 R6 F7 VDDQ#7 VDDQ#8 VDDW9 VDD#1 VDD#2 VDD#3 VDD#4 VDD#5 VDD#6 VDD#7 VDD#8 VDD#8 VDD#9 E2 D8 E8 B9 F9 VDDQ#7 VDDQ#8 VDDQ#9 VDD#1 VDD#2 VDD#3 VDD#4 VDD#5 VDD#6 VDD#7 VDD#8 VDD#9 VCC-DRAM SDQS0B SDQS1B VCC-DRAM0 VCC-DRAM1 VSSQ#4 VSSQ#5 VSSQ#4 VSSQ#5 GND VCC-DRAM2 VCC-DRAM3 VSSQ#6 VSSQ#7 VSSQ#6 VSSQ#7 GND SDQS2B GND GND SDQS3B VSSQ#7 VSSQ#8 VSSQ#9 VSS#1 VSS#2 VSS#3 VSS#4 VSS#5 VSSQ#7 VSSQ#8 VSSQ#9 VSS#1 VSS#2 VSS#3 VSS#4 VSS#4 VCC-DRAM4 VCC-DRAM5 K6 M6 L6 N6 SDOMO VCC-DRAM6 VCC-DRAM7 VCC-DRAM8 SDQM1 SDQM2 В3 SDQM3 SVREF K1 SVREF VSS#6 VSS#7 VSS#6 VSS#7 SZQ D6 E6 D7 SADBG SDDBG0 VSS#8 VSS#9 A9 M9 A9 M9 VDD-DRAMPLL VDD-SPLL VSS#9 VSS#10 VSS#11 VSS#10 VSS#11 DR5 DC1 240R 1% 0.1uF VSS#12 R0402 C0402 GND ĘŅD GND GND VCC-DRAM VCC-DRAM SVREF DC2 DC3 DC4 DC5 DC6
10uF 1uF 1uF 0.1uF 0.1uF
C0603 C0402 C0402 C0402 C0402 DC7 0.1uF C0402 VCC-DRAM VCC-DRAM DC8 0.1uF C0402 DR6 2K 1% R0402 GND 를 GND DC9 DC10 DC11 DC12 DC13 DC14
10uF 1uF 1uF 0.1uF 0.1uF 0.1uF
C0603 C0402 C0402 C0402 C0402 C0402 DC15 DC16 DC17 DC18 DC19 DC20
10uF 1uF 1uF 0.1uF 0.1uF 0.1uF
C0603 C0402 C0402 C0402 C0402 C0402 + C84 SVREF 100uF/10V CAP3528 DC21 0.1uF 2K 1% GND GND R0402 C0402 SCK DR8 100R 1% SCKB GND SVREF DC23 DC24 0.1uF 0.1uF C0402 C0402 GND pcDuino8 Uno Document Number Size A3 Rev V01 DDR3\_16X2 Wednesday, August 26, 2015











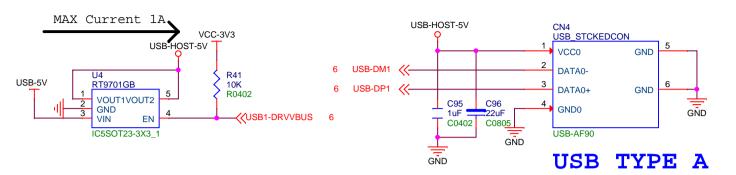
pcDuino8 Uno

HDMI-CAMERA

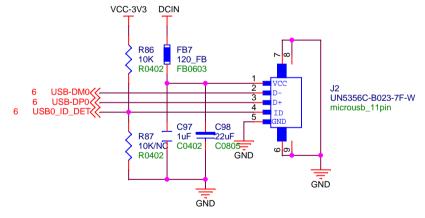
Rev V01

Size A3

## **USB-HOST0**



## **USB-OTG**



MICRO USB

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