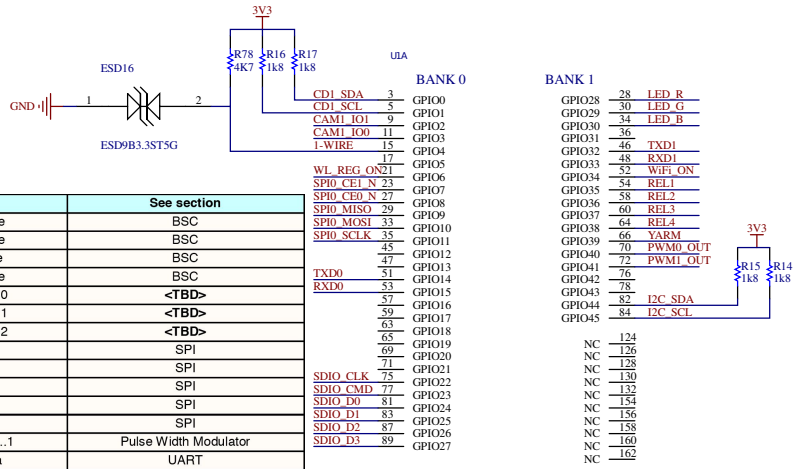
	Pull	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5
GPIO0	High	SDA0	SA5	<reserved>			
GPIO1	High	SCL0	SA4	<reserved>			
GPIO2	High	SDA1	SA3	<reserved>			
GPIO3	High	SCL1	SA2	<reserved>			
GPIO4	High	GPCLK0	SA1	<reserved>			ARM_TDI
GPIO5	High	GPCLK1	SA0	<reserved>			ARM_TDO
GPIO6	High	GPCLK2	SOE_N / SE	<reserved>			ARM_RTCK
GPIO7	High	SPI0_CE1_N	SWE_N / SRW_N	<reserved>			
GPIO8	High	SPI0_CE0_N	SD0	<reserved>			
GPIO9	Low	SPI0_MISO	SD1	<reserved>			
GPIO10	Low	SPI0_MOSI	SD2	<reserved>			
GPIO11	Low	SPI0_SCLK	SD3	<reserved>			
GPIO12	Low	PWM0	SD4	<reserved>			ARM_TMS
GPIO13	Low	PWM1	SD5	<reserved>			ARM_TCK
GPIO14	Low	TXD0	SD6	<reserved>			TXD1
GPIO15	Low	RXD0	SD7	<reserved>			RXD1
GPIO16	Low	<reserved>	SD8	<reserved>	CTS0	SPI1_CE2_N	CTS1
GPIO17	Low	<reserved>	SD9	<reserved>	RTS0	SPI1_CE1_N	RTS1
GPIO18	Low	PCM_CLK	SD10	<reserved>	BSCSL SDA / MOSI	SPI1_CE0_N	PWM0
GPIO19	Low	PCM_FS	SD11	<reserved>	BSCSL SCL / SCLK	SPI1_MISO	PWM1
GPIO20	Low	PCM_DIN	SD12	<reserved>	BSCSL / MISO	SPI1_MOSI	GPCLK0
GPIO21	Low	PCM_DOUT	SD13	<reserved>	BSCSL / CE_N	SPI1_SCLK	GPCLK1
GPIO22	Low	<reserved>	SD14	<reserved>	SD1_CLK	ARM_TRST	
GPIO23	Low	<reserved>	SD15	<reserved>	SD1_CMD	ARM_RTCK	
GPIO24	Low	<reserved>	SD16	<reserved>	SD1_DAT0	ARM_TDO	
GPIO25	Low	<reserved>	SD17	<reserved>	SD1_DAT1	ARM_TCK	
GPIO26	Low	<reserved>	<reserved>	<reserved>	SD1_DAT2	ARM_TDI	
GPIO27	Low	<reserved>	<reserved>	<reserved>	SD1_DAT3	ARM_TMS	
GPIO28	-	SDA0	SA5	PCM_CLK	<reserved>		
GPIO29	-	SCL0	SA4	PCM_FS	<reserved>		
GPIO30	Low	<reserved>	SA3	PCM_DIN	CTS0		CTS1
GPIO31	Low	<reserved>	SA2	PCM_DOUT	RTS0		RTS1
GPIO32	Low	GPCLK0	SA1	<reserved>	TXD0		TXD1
GPIO33	Low	<reserved>	SA0	<reserved>	RXD0		RXD1
GPIO34	High	GPCLK0	SOE_N / SE	<reserved>	<reserved>		
GPIO35	High	SPI0_CE1_N	SWE_N / SRW_N		<reserved>		
GPIO36	High	SPI0_CE0_N	SD0	TXD0	<reserved>		
GPIO37	Low	SPI0_MISO	SD1	RXD0	<reserved>		
GPIO38	Low	SPI0_MOSI	SD2	RTS0	<reserved>		
GPIO39	Low	SPI0_SCLK	SD3	CTS0	<reserved>		
GPIO40	Low	PWM0	SD4		<reserved>	SPI2_MISO	TXD1
GPIO41	Low	PWM1	SD5	<reserved>	<reserved>	SPI2_MOSI	RXD1
GPIO42	Low	GPCLK1	SD6	<reserved>	<reserved>	SPI2_SCLK	RTS1
GPIO43	Low	GPCLK2	SD7	<reserved>	<reserved>	SPI2_CE0_N	CTS1
GPIO44	-	GPCLK1	SDA0	SDA1	<reserved>	SPI2_CE1_N	
GPIO45	-	PWM1	SCL0	SCL1	<reserved>	SPI2_CE2_N	
GPIO46	High	<Internal>					
GPIO47	High	<Internal>					
GPIO48	High	<Internal>					
GPIO49	High	<Internal>					
GPIO50	High	<Internal>					
GPIO51	High	<Internal>					
GPIO52	High	<Internal>					
GPIO53	High	<Internal>					



Raspberry Pi Compute Module 3 LITE

Name	Function	See section
SDA0	BSC[0] master 0 data line	BSC
SCL0	BSC master 0 clock line	BSC
SDA1	BSC master 1 data line	BSC
SCL1	BSC master 1 clock line	BSC
GPCLK0	General purpose Clock 0	**<TBD>**
GPCLK1	General purpose Clock 1	**<TBD>**
GPCLK2	General purpose Clock 2	**<TBD>**
SPI0_CE1_N	SPI0 Chip select 1	SPI
SPI0_CE0_N	SPI0 Chip select 0	SPI
SPI0_MISO	SPI0 MISO	SPI
SPI0_MOSI	SPI0 MOSI	SPI
SPI0_SCLK	SPI0 Serial clock	SPI
PWMx	Pulse Width Modulator 0..1	Pulse Width Modulator
TXD0	UART 0 Transmit Data	UART
RXD0	UART 0 Receive Data	UART
CTS0	UART 0 Clear To Send	UART
RTS0	UART 0 Request To Send	UART
PCM_CLK	PCM clock	PCM Audio
PCM_FS	PCM Frame Sync	PCM Audio
PCM_DIN	PCM Data in	PCM Audio
PCM_DOUT	PCM data out	PCM Audio
SAx	Secondary mem Address bus	Secondary Memory Interface
SOE_N / SE	Secondary mem. Controls	Secondary Memory Interface
SWE_N / SRW_N	Secondary mem. Controls	Secondary Memory Interface
SDx	Secondary mem. data bus	Secondary Memory Interface
BSCSL SDA / MOSI	BSC slave Data, SPI salve MOSI	BSC ISP slave
BSCSL SCL / SCLK	BSC slave Clock, SPI slave clock	BSC ISP slave
BSCSL - / MISO	BSC <not used>,SPI MISO	BSC ISP slave
BSCSL - / CE_N	BSC <not used>, SPI CSn	BSC ISP slave
SPI1_CEx_N	SPI1 Chip select 0-2	Auxiliary I/O
SPI1_MISO	SPI1 MISO	Auxiliary I/O
SPI1_MOSI	SPI1 MOSI	Auxiliary I/O
SPI1_SCLK	SPI1 Serial clock	Auxiliary I/O
TXD0	UART 1 Transmit Data	Auxiliary I/O
RXD0	UART 1 Receive Data	Auxiliary I/O
CTS0	UART 1 Clear To Send	Auxiliary I/O
RTS0	UART 1 Request To Send	Auxiliary I/O
SPI2_CEx_N	SPI2 Chip select 0-2	Auxiliary I/O
SPI2_MISO	SPI2 MISO	Auxiliary I/O
SPI2_MOSI	SPI2 MOSI	Auxiliary I/O
SPI2_SCLK	SPI2 Serial clock	Auxiliary I/O
ARM_TRST	ARM JTAG reset	**<TBD>**
ARM_RTCK	ARM JTAG return clock	**<TBD>**
ARM_TDO	ARM JTAG Data out	**<TBD>**
ARM_TCK	ARM JTAG Clock	**<TBD>**
ARM_TDI	ARM JTAG Data in	**<TBD>**
ARM_TMS	ARM JTAG Mode select	**<TBD>**

DPI mode

GPIO	ALT Func2
GPIO0	PCLK
GPIO1	DE
GPIO2	LCD_VSYNC
GPIO3	LCD_HSYNC
GPIO4	DPI_D0
GPIO5	DPI_D1
GPIO6	DPI_D2
GPIO7	DPI_D3
GPIO8	DPI_D4
GPIO9	DPI_D5
GPIO10	DPI_D6
GPIO11	DPI_D7
GPIO12	DPI_D8
GPIO13	DPI_D9
GPIO14	DPI_D10
GPIO15	DPI_D11
GPIO16	DPI_D12
GPIO17	DPI_D13
GPIO18	DPI_D14
GPIO19	DPI_D15
GPIO20	DPI_D16
GPIO21	DPI_D17
GPIO22	DPI_D18
GPIO23	DPI_D19
GPIO24	DPI_D20
GPIO25	DPI_D21
GPIO26	DPI_D22
GPIO27	DPI_D23

Mode	RGB bits	GPIO 27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	565	-	-	-	-	-	-	-	7	6	5	4	3	7	6	5	4	3	2	7	6	5	4	3	
3	565	-	-	-	7	6	5	4	3	-	-	7	6	5	4	3	2	-	-	-	7	6	5	4	3
4	565	-	-	7	6	5	4	3	-	-	-	7	6	5	4	3	2	-	-	7	6	5	4	3	-
5	666	-	-	-	-	-	-	7	6	5	4	3	2	7	6	5	4	3	2	7	6	5	4	3	2
6	666	-	-	7	6	5	4	3	2	-	-	7	6	5	4	3	2	-	-	7	6	5	4	3	2
7	888	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0

Title CM3-Home_IO

Size: A4 Number:* Revision:1

Date: 22/08/2017 Time: 21:14:42 Sheet 1 of 2

File: Y:\hubi\C\ProgettiCustom\CM3-Home\CM3-Home_IO.SchDoc

ACME Systems srl

WWW.ACMESYSTEMS.IT

ACME SYSTEMS