3 Module pin assignments

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 - 3.1 Hardware pin assignment
 - 3.2 Software GPIO allocation

3.1 Hardware pin assignment

Hardware IO port	function
IO_RST	RESET K210
IO_1	Unused
10_2	Unused
IO_3	Unused
IO_4	ISP_TX, connect microUSB TX
10_5	ISP_RX, connect microUSB RX
IO_6	TXD, The send pin(TX) of the expansion interface
10_7	Unused
IO_8	RXD, The receiving pin(RX) of the expansion interface
10_9	Unused
IO_10	Unused
IO_11	Unused
IO_12	Unused
IO_13	Unused
IO_14	Unused
IO_15	Unused
IO_16	BOOT, connect key K1
IO_17	Unused
IO_18	Unused
IO_19	Unused
IO_20	Unused

Hardware IO port	function		
IO_21	Unused		
IO_22	FT_INT,Connect the interrupt pin to the touch screen		
IO_23	LCD-RST, Connect to the reset pin of the touch screen		
10_24	I2C-SCL, Connect the I2C-SCL pin of the touchpad		
10_25	I2C-SDA,Connect the I2C-SDA pin of the touchpad		
10_26	RGB-G, Connect to the G pin of the RGB lamp		
10_27	RGB-R, The R pin is connected to the RGB lamp		
10_28	LCD-WR, Connect to the WR(CLK) pin of the LCD		
IO_29	RGB-B, The B pin is connected to the RGB lamp		
IO_30	LCD-CS, The CS pin is connected to the LCD		
IO_31	LCD-RS,The RS(DC) pin connected to the LCD		
IO_32	SPI-CLK, The CLK pin connected to the TF card slot		
IO_33	SPI-MISO,The MISO pin connected to the TF card slot		
IO_34	SPI-CS,The CS pin connected to the TF card slot		
IO_35	SPI-MOSI, The MOSI pin connected to the TF card slot		
IO_36	Unused		
IO_37	Unused		
IO_38	Unused		
IO_39	Unused		
IO_40	DVP-SDA, Connect to the camera DVP-SDA pin		
IO_41	DVP-SCL, Connect to the camera DVP-SCL pin		
IO_42	DVP-RST,Connect to the camera DVP-RST pin		
IO_43	DVP-VSYNC,Connect to the camera DVP-VSYNC pin		
IO_44	DVP-PWDN,Connect to the camera DVP-PWDN pin		
IO_45	DVP-HSYNC, Connect to the camera DVP-HSYNC pin		
IO_46	DVP-XCLK, Connect to the camera DVP-XCLK pin		
IO_47	DVP-PCLK, Connect to the camera DVP-PCLK pin		

Fixed IO port	function
SPI0_D7	LCD-D7, Connect to the LCD-D7 pin
SPI0_D6	LCD-D6, Connect to the LCD-D6 pin
SPI0_D5	LCD-D5, Connect to the LCD-D5 pin
SPI0_D4	LCD-D4, Connect to the LCD-D4 pin
SPI0_D3	LCD-D3, Connect to the LCD-D3 pin
SPI0_D2	LCD-D2, Connect to the LCD-D2 pin
SPI0_D1	LCD-D1, Connect to the LCD-D1 pin
SPI0_D0	LCD-D0, Connect to the LCD-D0 pin
DVP_D7	DVP-D7, Connect to the DVP-D7 pin
DVP_D6	DVP-D6, Connect to the DVP-D6 pin
DVP_D5	DVP-D5, Connect to the DVP-D5 pin
DVP_D4	DVP-D4, Connect to the DVP-D4 pin
DVP_D3	DVP-D3, Connect to the DVP-D3 pin
DVP_D2	DVP-D2, Connect to the DVP-D2 pin
DVP_D1	DVP-D1, Connect to the DVP-D1 pin
DVP_D0	DVP-D0,Connect to the DVP-D0 pin

3.2 Software GPIO allocation

GPIOHS Default	function	Binding hardware IO
GPIOHS31	LCD-RS, LCD read and write signal pin	IO_31
GPIOHS30	LCD_RST, LCD reset pin	IO_23
GPIOHS29	SPI-CS,TF card SPI slice selection pin	IO_34
GPIOHS25	RGB-B, RGB light blue pin	IO_29
GPIOHS24	RGB-G, RGB light green pin	IO_26
GPIOHS23	RGB-R, RGB lamp red pin	IO_27