

# Pine H64 “model B” Port Assignment

ver 2.0

## Front:

- 2 x USB 2.0 type A port (top- OTG)
- 1x USB 3.0 type A port
- Gigabit Ethernet port

## Rear:

- IR receiver
- 3x surface mount small LEDs
- 2x push buttons – “RESET”, “POWER”)
- eMMC module connector (top)
- microSD card slot (bottom)

## Right side:

- Head phone AV jack
- 3x2 EXP Bus
- +5V 3A 3.5mm OD/1.35mm ID barrel type DC power jack

## Rear:

- IR receiver
- 3x surface mount small LEDs
- 2x push buttons – “RESET”, “POWER”)
- eMMC module connector (top)
- microSD card slot (bottom)

## Left:

- 20x2 Pi-2 GPIO Bus

## Connectors on board:

- 2 pin RTC battery port
- 3 pin SPDIF port (Vcc, output, Gnd) port
- 20 x 2 dual in line pins Pi-2 bus
- 3 x 2 dual in line pins EXP port

## Pi-2 Connector [ver 2.0]

	3.3V	1	2	5V DC-in	
[PD26-TWI0_SDA]	GPIO 2 (I2C_SDA)	3	4	5V DC-in	
[PD25-TWI0_SCK]	GPIO 3 (I2C_SCL)	5	6	GND	
[PL8_S-PWM]	GPIO 4 (GPCLK0)	7	8	GPIO 14 (UART_TXD)	[PD19-UART2_TX]
	GND	9	10	GPIO 15 (UART_RXD)	[PD20-UART2_RX]
[PL9 IR_RX]	GPIO 17	11	12	GPIO 18 (PCM_BCLK)	[PG11-I2S2_CLK]
[PD14/DMIC_CLK]	GPIO 27	13	14	GND	
[PD15/DMIC_DATA0]	GPIO 22	15	16	GPIO 23	[PD16/ DMIC_DATA1]
	3.3V	17	18	GPIO 24	[PD17/ DMIC_DATA2]
[PH5-SPI1_MOSI]	GPIO 10 (SPI_MOSI)	19	20	GND	
[PH6-SPI1_MISO]	GPIO 9 (SPI_MISO)	21	22	GPIO 25	[PD18/ DMIC_DATA3]
[PH4-SPI1_CLK]	GPIO 11 (SPI_SCLK)	23	24	GPIO 8 (SPI_CE0)	[PH3-SPI1_CS]
	GND	25	26	GPIO 7 (SPI_CE1)	[PC16]
[PH9-HSDA]	ID_SD	27	28	ID_SC	[PH8-HSCL]
[PH2]	GPIO 5	29	30	GND	
[PG14-I2S2_MCLK]	GPIO 6	31	32	GPIO 12	[PD22]
[PD21]	GPIO 13	33	34	GND	
[PG10-I2S2_SYNC]	GPIO 19 (PCM_LRCK)	35	36	GPIO 16	[PD24]
[PD23]	GPIO 26	37	38	GPIO 22 (PCM_DI)	[PG13-I2S2_DIN]
	GND	39	40	GPIO 21 (PCM_DO)	[PG12-I2S2_DOUT]

Note: The **RED** text indicate the GPIO pin assignment that different than model -A

## EXT Connector

[PH0-UART0_TX]	1	2	Power On Switch
[PH1-UART0_RX]	3	4	Reset Switch
GND	5	6	GND