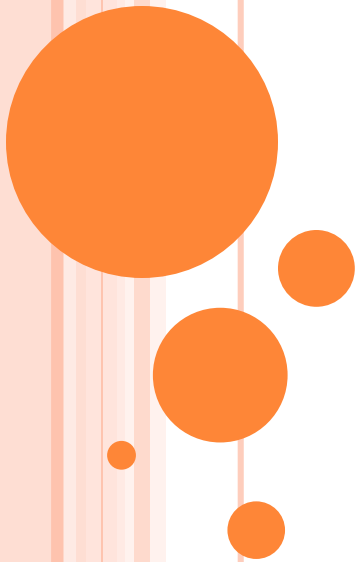
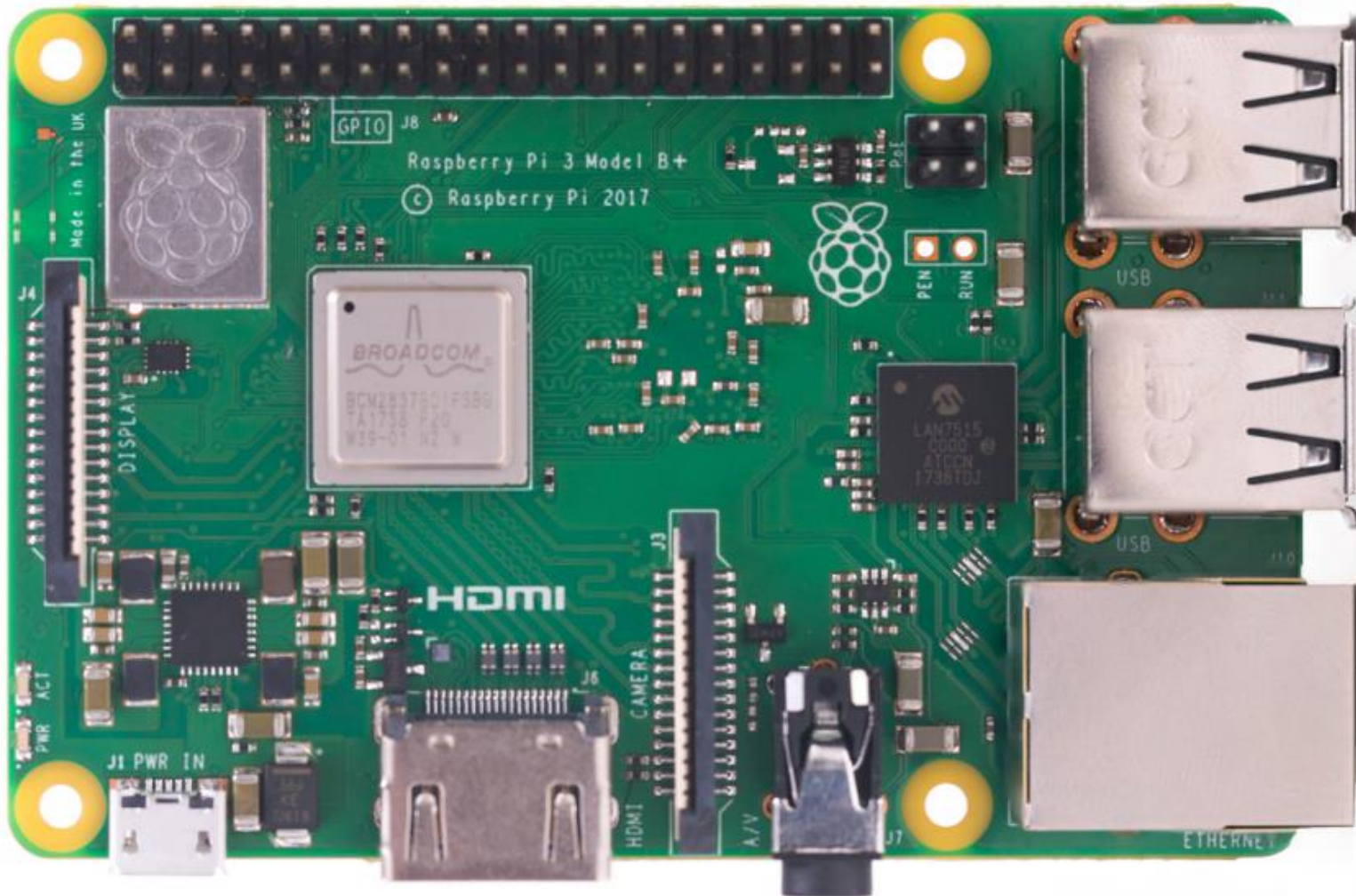


# RASPBERRY PI 3B+

**MR. CHANDRAKANT BORLE**



# RASPBERRY PI 3B+









2.4GHz and 5GHz  
Wireless LAN  
Bluetooth 4.2/BLE

BCM2837B0  
64bit Soc@1.4GHz  
with 1GB LPDDR2 SDRAM

40pin GPIO

PoE Header

MIPI DSI  
display port

56mm

4 x USB 2.0 ports  
and Faster Ethernet  
over USB2.0 (300Mbps)

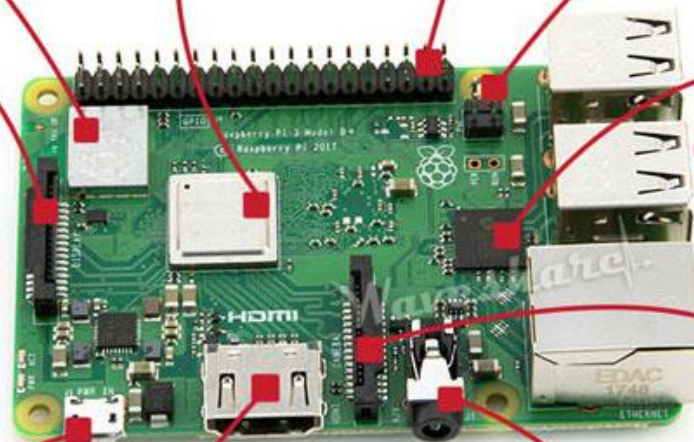
MIPI CSI camera port

5V/2.5A DC via  
micro USB connector

85mm

Full-size HDMI

4-pole stereo output  
and composite video port



# RASPBERRY PI 3B+ SPECIFICATIONS

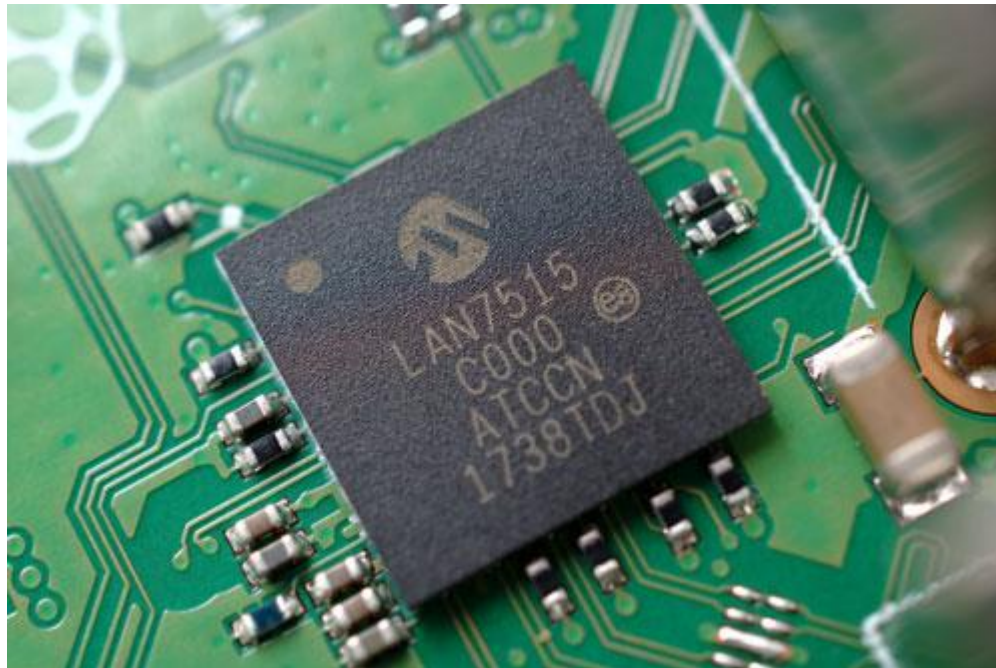
- Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
- 1GB LPDDR2 SDRAM
- 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE
- Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps)
- Extended 40-pin GPIO header
- Full-size HDMI
- 4 USB 2.0 ports
- CSI camera port for connecting a Raspberry Pi camera
- DSI display port for connecting a Raspberry Pi touchscreen display
- 4-pole stereo output and composite video port
- Micro SD port for loading your operating system and storing data
- 5V/2.5A DC power input
- Power-over-Ethernet (PoE) support (requires separate PoE HAT)



# FASTER 1.4GHz CPU

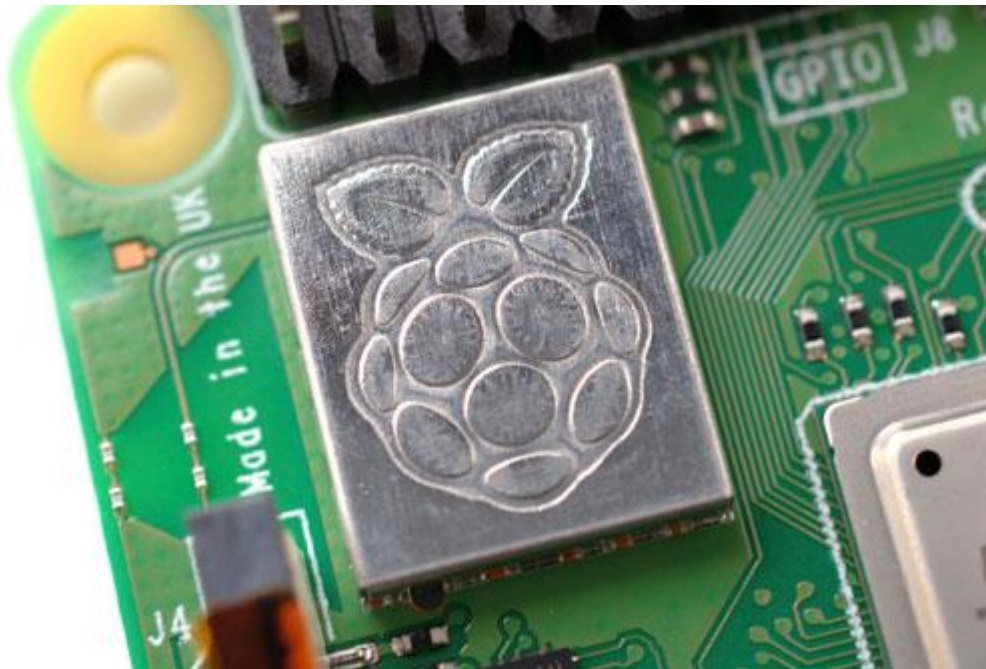


# FASTER ETHERNET (GIGABIT VIA USB)

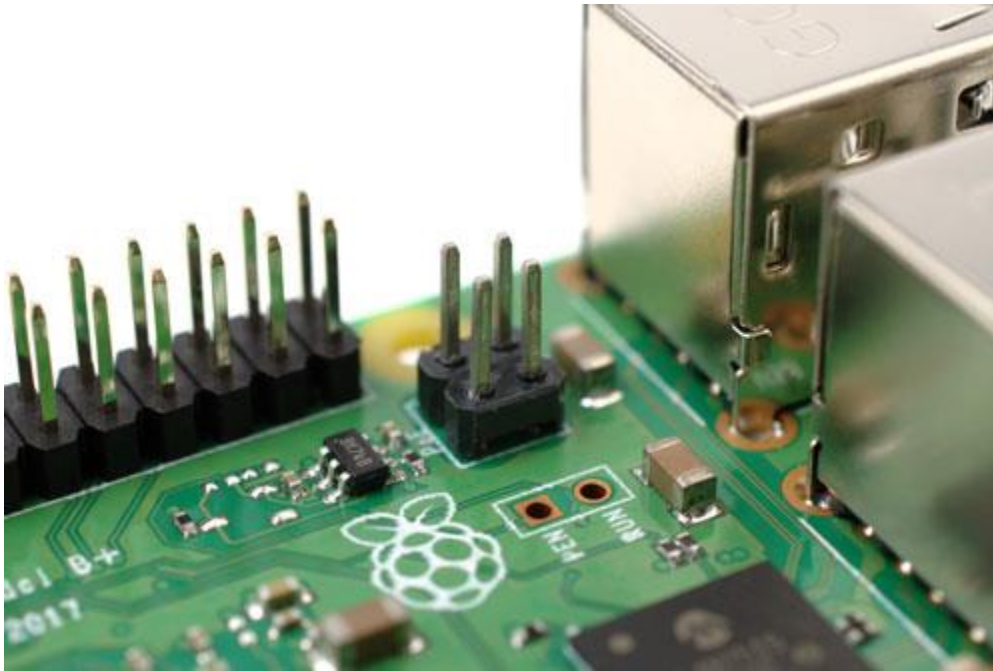




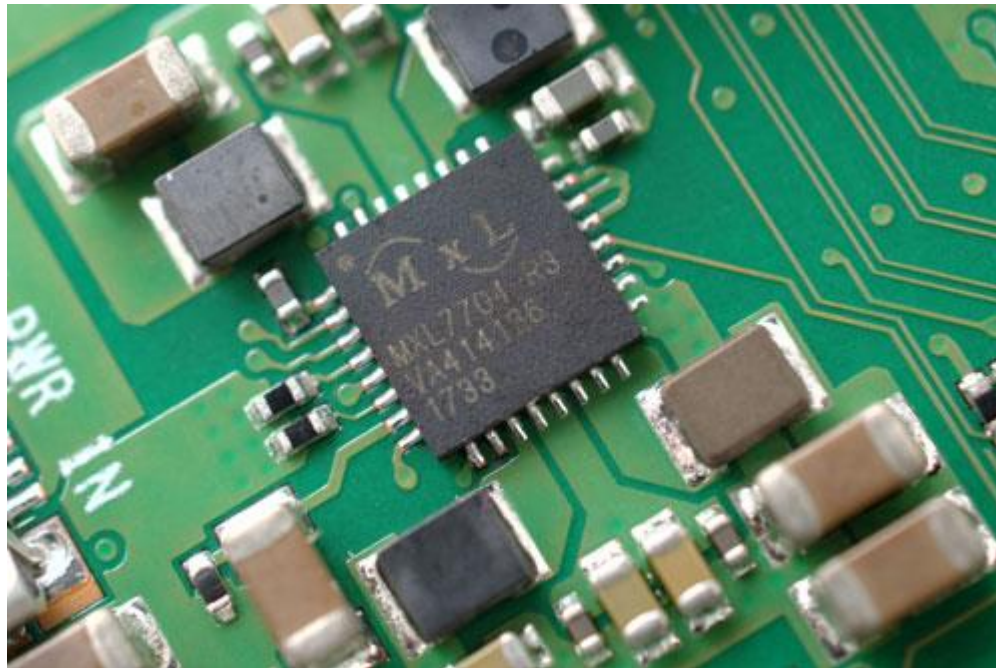
# DUAL-BAND 2.4GHZ AND 5GHZ WIRELESS LAN



POWER OVER ETHERNET (PoE) READY  
AN OPTIONAL POWER-OVER-ETHERNET (PoE)  
HAT MODULE, AVAILABLE SEPARATELY, CAN  
POWER THE PI 3 B+.



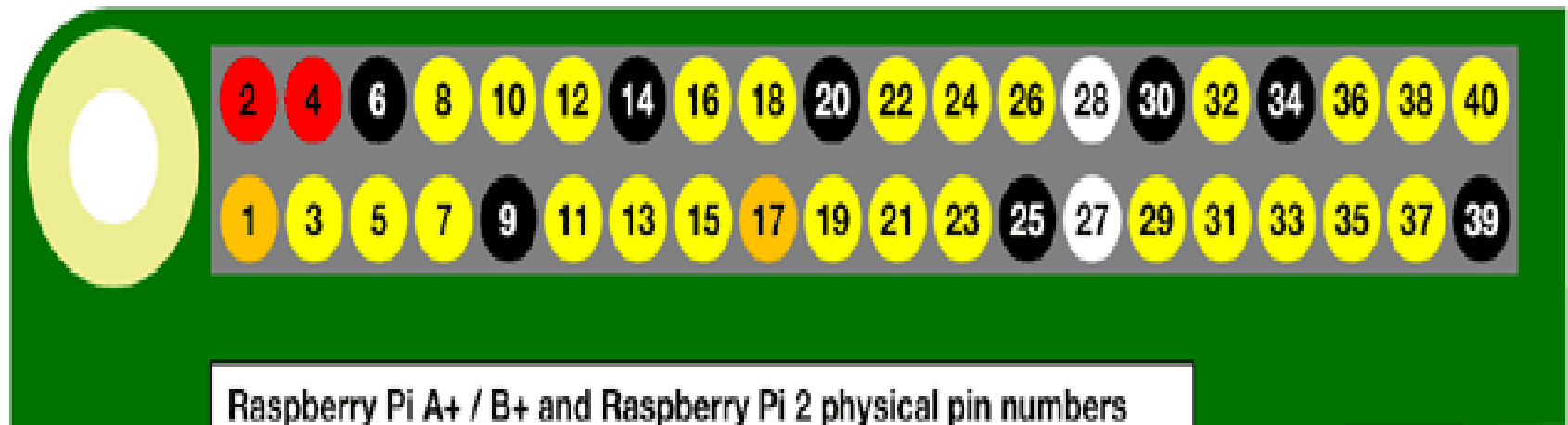
# POWER MANAGEMENT



Pi Model B/B+			
3V3 Power	1	2	5V Power
GPIO2 SDA1 I2C	3	4	5V Power
GPIO3 SCL1 I2C	5	6	Ground
GPIO4	7	8	GPIO14 UART0_TXD
Ground	9	10	GPIO15 UART0_RXD
GPIO17	11	12	GPIO18 PCM_CLK
GPIO27	13	14	Ground
GPIO22	15	16	GPIO23
3V3 Power	17	18	GPIO24
GPIO10 SPI0_MOSI	19	20	Ground
GPIO9 SPI0_MISO	21	22	GPIO25
GPIO11 SPI0_SCLK	23	24	GPIO8 SPI0_CE0_N
Ground	25	26	GPIO7 SPI0_CE1_N
ID_SD I2C ID EEPROM	27	28	ID_SC I2C ID EEPROM
GPIO5	29	30	Ground
GPIO6	31	32	GPIO12
GPIO13	33	34	Ground
GPIO19	35	36	GPIO16
GPIO26	37	38	GPIO20
Ground	39	40	GPIO21
Pi Model B+			







Raspberry Pi A+ / B+ and Raspberry Pi 2 physical pin numbers





3.3v	5V	5V
GPIO 2 Serial Data (I2C)	5V	Ground
GPIO3 Serial Clock (I2C)	Ground	GPIO 14 (UART TX)
GPIO 4	GPIO 14 (UART TX)	GPIO 15 (UART RX)
Ground	GPIO 18 Chip Enable-CE0 (SPI) [PWM]	
GPIO 17 Chip Enable-CE1 (SPI1)	Ground	
GPIO 27	GPIO 23	
GPIO 22	GPIO 24	
3.3v	Ground	
GPIO 10 MOSI (SPI 0)	Ground	
GPIO 09 MISO (SPI 0)	GPIO 25	
GPIO 11 SCLK (SPI 0)	GPIO 8 Chip Enable-CE0 (SPI0)	
Ground	GPIO 7 Chip Enable-CE1(SPI0)	
GPIO 0 EEPROM Serial DATA (I2C)	GPIO 1 EEPROM Serial Clock (I2C)	
GPIO 5	Ground	
GPIO 6	GPIO 12 (PWM)	
GPIO 13 (PWM)	Ground	
[PWM] GPIO 19 MISO (SPI 1)	GPIO 16 Chip Enable-CE2 (SPI 1)	
GPIO 26	GPIO 20 MISO (SPI 1)	
Ground	GPIO 21 SCLK (SPI 1)	

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QUESTIONS ???

