

# Sleep Modes and Power Consumption for ESP-32

Power mode	Description		Power consumption	
Modem-sleep	The CPU is powered on.	240 MHz *	Dual-core chip(s)	30 mA ~ 68 mA
			Single-core chip(s)	N/A
		160 MHz *	Dual-core chip(s)	27 mA ~ 44 mA
			Single-core chip(s)	27 mA ~ 34 mA
		Normal speed: 80 MHz	Dual-core chip(s)	20 mA ~ 31 mA
			Single-core chip(s)	20 mA ~ 25 mA
Light-sleep	-		0.8 mA	
Deep-sleep	The ULP coprocessor is powered on.		150 $\mu$ A	
	ULP sensor-monitored pattern		100 $\mu$ A @1% duty	
	RTC timer + RTC memory		10 $\mu$ A	
Hibernation	RTC timer only		5 $\mu$ A	
Power off	CHIP_PU is set to low level, the chip is powered off.		1 $\mu$ A	

source: [https://www.espressif.com/sites/default/files/documentation/esp32\\_datasheet\\_en.pdf](https://www.espressif.com/sites/default/files/documentation/esp32_datasheet_en.pdf)

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