

## CP324BSS24 Features

### CPU Core

32-bit CPU, the highest frequency is 160MHz  
Maximum 16KB 4Way ICache, configurable part Way as a common memory for the CPU use or other Peripheral

### Memory

On-chip 32KB SRAM(not including ICache)  
ICache SRAM: 4KB~12KB configurable

### Clock Source

RC Clock frequency about 16MHz  
LRC( low power RC) clock frequency about 32KHz  
HTC( low drift internal high frequency RC)clock frequency is 5MHz

### Digital I/O

16 programmable digital I/O pins  
USB DP/DM can be configured to normal I/O pins  
General the IO supports pull-up(10k),pull-down(60k), strong,weak output,input and high impedance  
Up to 8 external interrupt/wake-up source(low power available,can be multiplexed to any I/O, with hardware filter)  
Input channel and Output channel, provide arbitrary IO input and output options for some modules

### Digital peripherals

One Full Speed USB 1.1 PHY

Two UART Controllers(UART0/1)  
UART1 supports DMA and Flow Control  
Two SPI Controllers with DMA(SPI0/1) support master mode and slave mode.  
One Spi Flash Controller to run code  
One SD host controller  
I2S audio interface  
Two 16-bit Asynchronous Divider Timers  
One IIC Controller  
Four channel PWM output  
0.5 watt Class-D audio amplifier output  
Infrared remote control decoder  
Watchdog  
64-bit EFUSE

### Analog Peripherals

MIC amplifier circuit  
Two analog audio input channels  
10-bit high precision ADC  
16-bit high precision ADC (mainly as recording)  
16-bit high precision DAC  
Low voltage protection  
Power on reset

### Operating Conditions

Working voltage  
VBAT: 2.0v - 5.5v  
VDDIO: 2.0v - 3.4v  
Operating Temperature: -40°C to +85°C

### Package

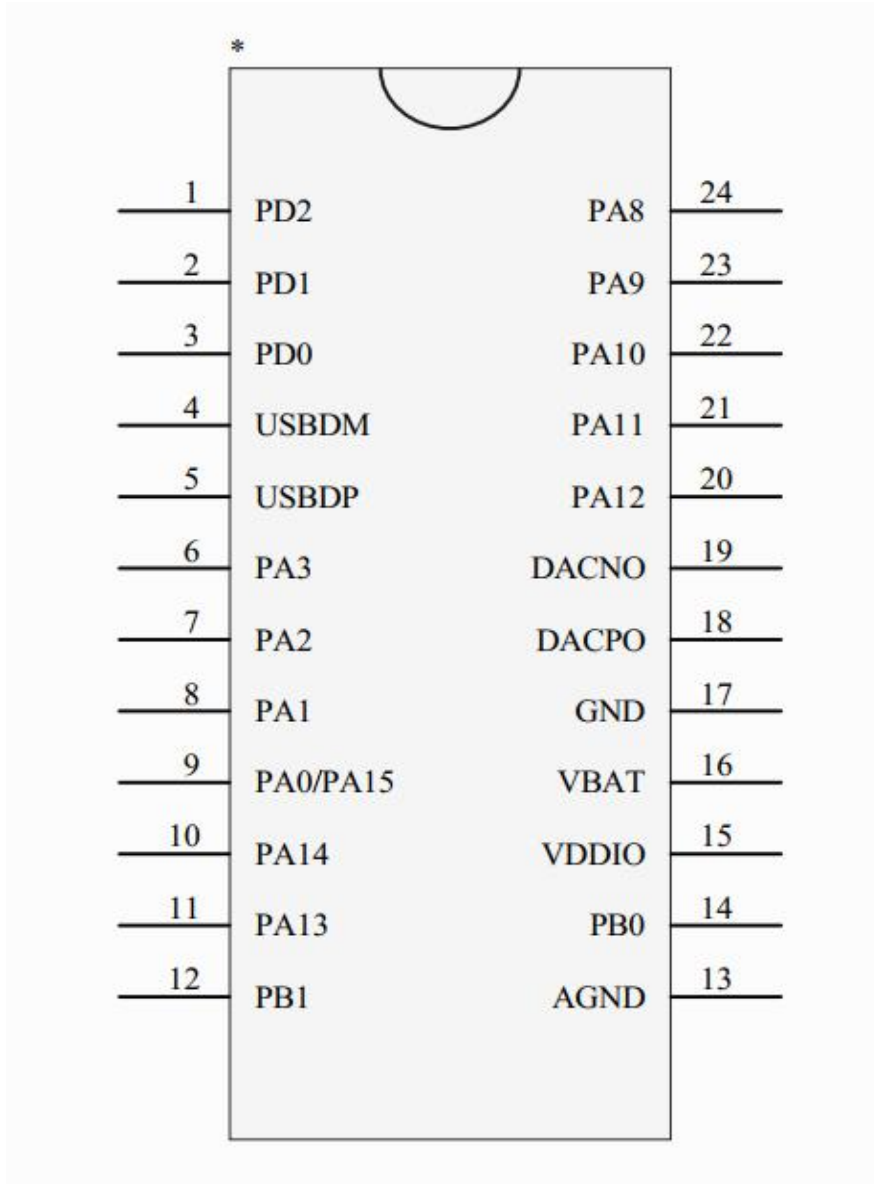
QSOP24

### Application

Sound Toy  
Audio player

# 1、 Pin Definition

## 1.1 Pin Assignment



**CP324BSS24**