



## DESCRIPTION

The PT8406 is a single chip MPEG audio decoder capable of decoding all layers compressed elementary streams, as specified in MPEG 1 and MPEG 2 ISO standards, including the so called MP3. Enhance with time-stretch and pitch-shift functions, this chip is suitable for language learning application. Another decoding function that PT8406 support is the Window Media Audio or WMA by Microsoft.

## FEATURES

- Decoder supports all layer and all the sampling frequency of MPEG1 (32/44.1/48KHz), MPEG2 (16/22.05/24KHz) and MPEG 2.5.
- Support Microsoft Window Media Audio V2/V7/V8/V9 format for decoding.
- Time-stretch and pitch-shift functions for various applications, including language learning
- Serial/parallel bit stream input interface
- Parallel bit stream output interface
- DAC master clock ( $256 \cdot f_s^1$  /  $384 \cdot f_s$  for 16 / 24 bit DAC) is supported
- Spectrum analyzer output register for spectrum graphic display
- Build-in volume and digital equalizer control
- Low operating voltage, 2.5V.
- 44-pin Plastic LQFP

## APPLICATIONS

- Portable MP3/WMA player
- Language learning machine
- PDA, Electronic dictionary
- All other MP3/WMA applications

<sup>1</sup> fs: sampling frequency.



# PIN CONFIGURATION

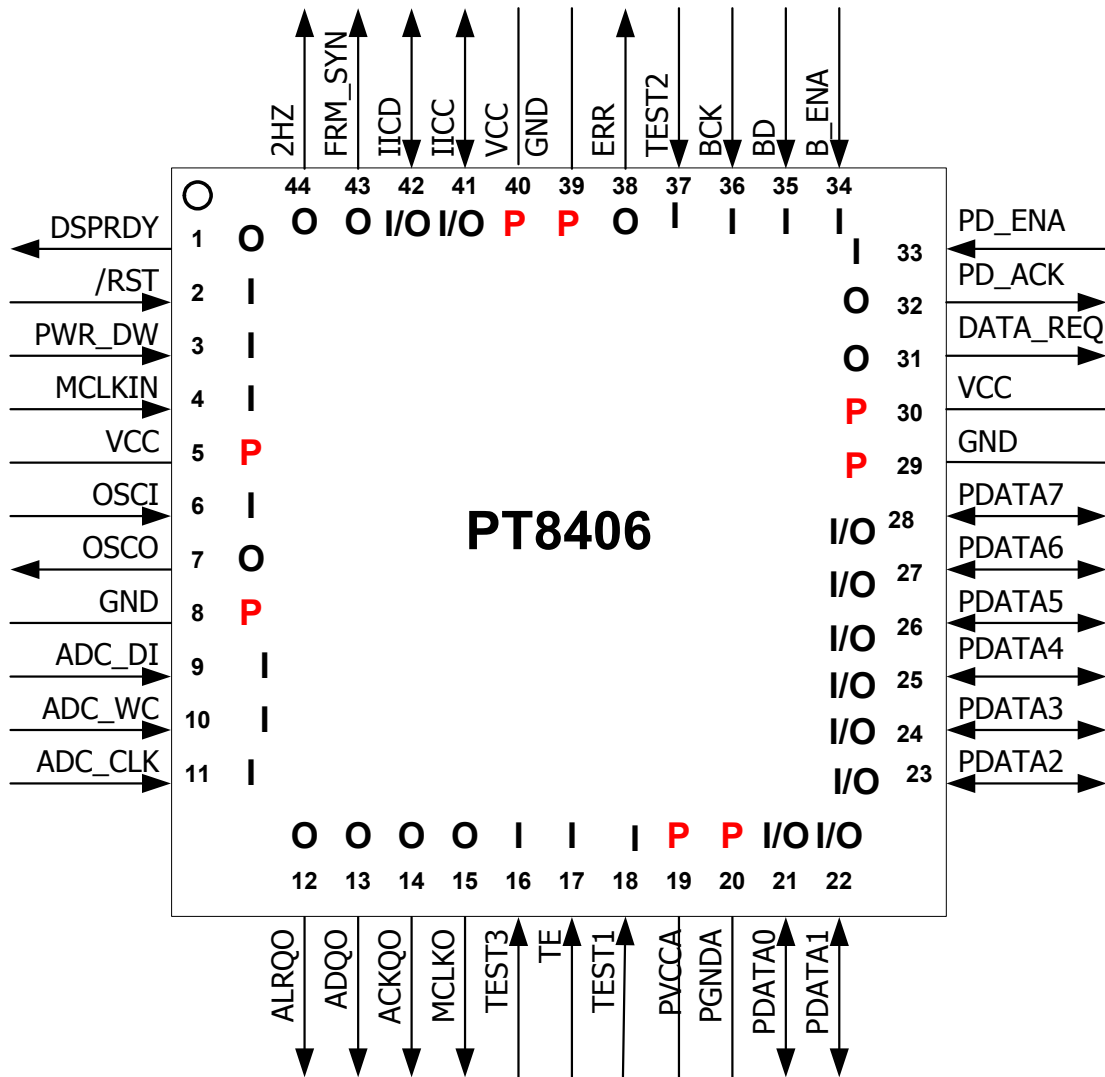


Figure 1. Pin Assignment (P: Power pins, I/O: IO pins)



## ORDER INFORMATION

Valid Part Number	Package Type	Top Code
PT8406-LQ	44 pins, LQFP	PT8406-LQ