



AX206 8-bit RISC Microcontroller



High Performance 8-bit RISC CPU

- DC-48MHz operation, 48MIPS (Max 48MHz)
- Compatible with 8051
- Fetch 1 instruction byte in 1 cycle

Program Memory and Data Memory

- 4K Bytes Mask-ROM program memory
- 3K Bytes internal data SRAM (Also use as IRAM and USB FIFO)

Interrupt Features

- External wakeup/interrupt capabilities on 3 GPIO and USB PHY
- 2-level interrupt priority

Flexible I/O

- 35 GPIO pins in 5 ports
- All GPIO pins can be individually programmable as input or output
- All GPIO pins are internal pull-up selectable
- TTL-level inputs with Schmitt Trigger
- All GPIO pins are 6mA current output driving, except 4 GPIO pins are 12mA output driving

Digital Peripheral Features

- One 8-bit timer: timer0
- 2 multi-function 16-bit timers, timer1 and timer2, support PWM mode
- Real-time wake up
- Watchdog Timer with on-chip 32KHz RC Oscillator
- Full-speed USB 2.0 controller and PHY module with 2 endpoints (including endpoint 0). USB FIFO Share with IRAM.
- 1 high-speed SPI, Maximum throughput 24Mb
- 1 UART
- 16bit X 16bit Multiplier for idct
- Bit-Fetcher for Huffman Decode

Analog Peripheral Features

- External 24MHz Oscillator
- 32.768KHz Real-Time Clock Oscillator
- Frequency doubler
- 8 Channel 10-bit ADC
- Power-on Reset
- BOR Reset
- LDO

Package Type

- 46-pin LQFP (7mm x 7mm)
- DIE form

Application

- Small panel digital photo frame



AppoTech Limited

Address :Unit 110-111, 1/F, IC Development Centre,
No.6, Science Park West Ave.,
Hong Kong Science Park,
Shatin, N.T., Hong Kong

Telephone : (852) 2607 4090

Fax : (852) 2607 4096

www.appotech.com