



AX201 8-bit RISC Microcontroller



CPU Features

- 63 compact instruction sets
- 2.5~3.6V operating voltage
- Software stack
- Support STOP/HALT power-saving mode

Program Memory and Data Memory

- 32 x 8-bit general-purpose register (4banks)
- 16k x 8-bit OTP program memory
- 768 x 8-bit internal High-speed RAM memory
- Provide 2 pointer indirect addressing
- Provide 1 pointer for software stack

Instruction

- Including Multiply/divide (8 bits × 8 bits, 16 bits / 8 bits)
- Bit manipulate

Interrupt Features

- 12 vectored interrupts (internal) for Timer/ Ports/ UART etc.
- Software interrupt capability

Flexible I/O

- 26 GPIO pins
- 21 Pull-up registers (software control only)
- Port A/B/D/E/F can be pull-up by software setting, and specified in 1-bit units.

Hardware Peripheral Features

- Timer0: 16-bit internal timer, (can count in different clock source)
- Timer1: 8-bit timer/counter, (square wave and PWM output)

- Timer2: 8-bit timer, (square wave and PWM output)
- Timer3: 8-bit timer, (square wave and PWM output)
- Watchdog Timer, support reset and interrupt
- 1 UART, supporting LIN-bus(local interconnect network)
- A/D converter: 10-bit resolution x 4 channels

Programming and Debugging Support

- In-System Programming (ISP) support
- In-System Debugging (ISD) support

Packages

- LQFP48

Application

- Automotive equipment
 - System control for body electrical (power windows etc.)
 - Sub-microcontrollers for control
- Home audio, car audio
- AV equipment
- PC peripheral equipment (keyboards, etc.)
- Household electrical appliances
 - Outdoor air conditioner units
 - Microwave ovens, electric rice cookers
- Industrial equipment
 - Pumps
 - Vending machines
 - FA (Factory Automation)

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