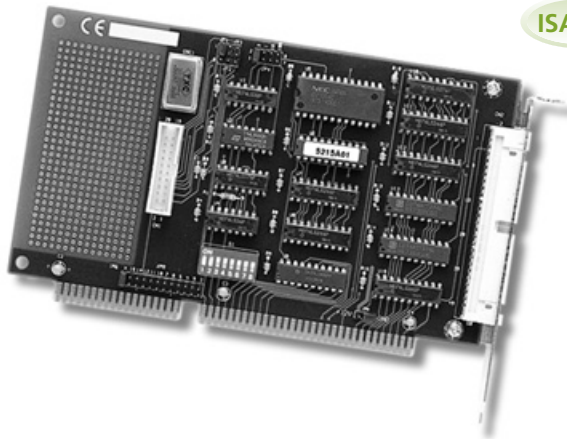


AX5224H

24-Bit DIO and 3-Channel Counter/Timer Board



ISA Bus

Features

- ▶ 24 TTL/DTL compatible DIO lines arranged into three 8-bit groups
- ▶ 24mA output sink current
- ▶ Emulates 8255 Mode 0
- ▶ Easy interface to high level signal through relay or SSR panel
- ▶ Each group programmable as input or output
- ▶ Three programmable counter/ timer channels
- ▶ Onboard 10MHz Oscillator
- ▶ Provides jumper selectable counter chaining
- ▶ External interrupt input
- ▶ 50-pin digital connector compatible with AX756, AX755 or AX754 accessory panels
- ▶ Supports Windows® 95/98/NT/2000 driver

Specifications

Input and Output	
Input/Output Lines	24
I/O Configuration	TTL/DTL compatible
Operation Mode	Emulates 8255 mode 0
Improved Noise Margins	Hysteresis, VT+ VT-0.4 (typ.)
Optional Interrupts	2, 3, 4, 5, 6, 7, 10, 11, 12, 14, 15
Programmable Counter/Timer	
Type	82C54
Number of Counters	3 independent 16-bit counters
Frequency Range	DC to 10MHz
Mode	6 programmable modes
Input/Output Level	TTL, DTL, CMOS compatible
Interface Characteristic	
Compatible Bus	IBM™ PC/AT and compatible I/O bus
I/O connector	50-pin male ribbon connector 20-pin male ribbon connector
Power Requirement	
+5V _{DC}	400mA typ.
Physical /Environmental	
Dimensions	175mm x 99mm
Weight	110g
Relative Humidity	0 to 90%, non-condensing

Ordering Information

AX5224H	24-bit DIO & 3-channel counter/timer module
Screw Terminal Board	
AX951A	Universal screw terminal panel signal conditioning board
Single Conditioning Board	
AX754	24 channel opto-isolated DI board
AX755/24	24 channel relay output & 24 channel opto-isolated DI board
AX756A/B	24 channel relay actuator board
Note: SSR I/O Panels and Modules are also available, please turn to the "Terminal & Signal Conditioning Family" for more details.	
Software Driver	
A559099	DOS, Windows® 3.1/95/98/2000/NT DLL driver, and device utility (in CD-ROM) (Note: for PCI board, DOS and Windows® 3.1 DLL driver are not available)
A559080	Including ActiveX control driver, 3rd party drivers (LABTECH, LabVIEW, DASYLab), and OPC server

Introduction

AX5224H is a 24-bit DIO and 3-channel counter/timer board designed to interface directly with the IBM PC/AT or compatible computers. The 24 bit DIO that emulate 8255 mode 0 can be used with TTL low level input/output circuitry or with AX754, AX755, AX756, and AX1416/24. It provides sink current up to 24mA.

Three 16-bit counter/timer channels (using the 8254 chip) allow the AX5224H to measure frequency or counter events; such as the number of times door opens or items pass on a conveyor belt. The build-in oscillator for 8254 offers jumper selectable frequency source of 10MHz, 1MHz or 100MHz. And for user conveniences, the AX5224H is designed to allow chaining of the 8254's counters via jumper setting.

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