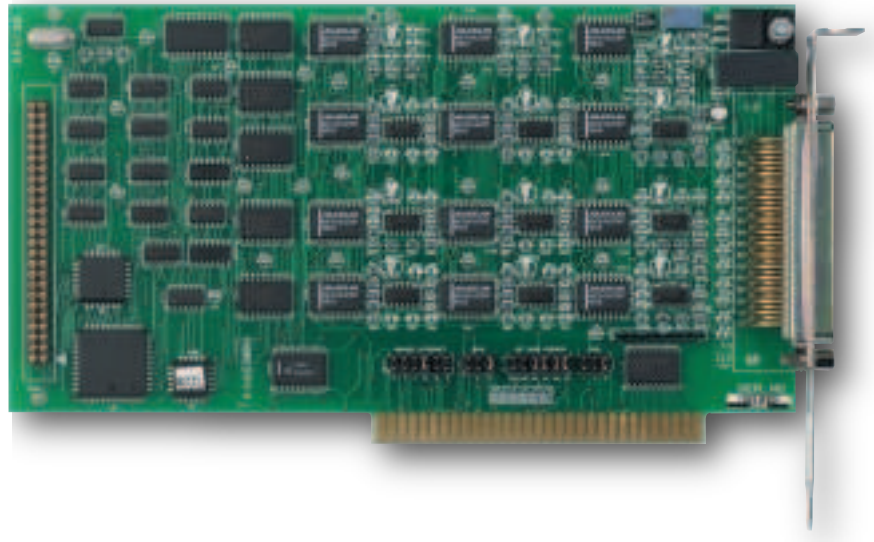


AOP-12d

12 Channel Digital to Analogue Card

The AOP-12d is a PC-compatible short card which provides digital inputs and outputs, and analogue outputs.

There are 24 TTL compatible programmable digital input/outputs available externally. There are also three programmable timers. One of the timer outputs is available externally to the user.



There are 12 analogue outputs available as ± 10 Volts. Output resolution is 12 bits.

DMA data transfer is available on the analogue output channels.

- 12 Analogue outputs $\pm 10V$
- 24 TTL digital inputs/outputs
- 50 way male D type connector
- 3 x 16 bit timers (82C54)
- Power requirements 5V d.c. at 350mA



AOP-12d

12 Channel Digital to Analogue Card

Technical Specification

Analogue Outputs

Analogue Outputs:	12 channels
Resolution:	12 bit Monotonic
Voltage Outputs:	±10 Volts @ 10mA maximum one O/P, or 5mA each from all O/Ps
Output Error Volts:	0.5% of Span
Output Settling Time:	3µS to ±1 LSB
Data Transfer:	I/O Port or DMA
DMA Channels Supported:	1,2 and 3
Fastest DMA Transfer Rate:	12µS per Transfer
Channel Selection:	Any or all channels may be selected to be updated
DMA Transfer Initialisation:	Software Start Signal

Maximum Time Skew:

Channel 1 To Channel 12	144µS
Between Channels	12µS

DMA Timing Source: On-board Programmable Timer

Digital Input/Output

Number Of Channels: 24

Digital Inputs:

High Level:	2.2 Volts minimum
Current:	10µA source

Low Level Input	0.8 Volts maximum
Current	10µA source

Digital Outputs:

Logic High Voltage:	3.5 Volt minimum
Current:	400µA source

Logic Low Voltage:	0.4 Volt
Current:	2.5mA sink

Timers

Number Of Timer Channels: 3

Timer Usage

Timer 0	Pre-Scaler for timer 1
Timer 1	Timer for DMA transfer
Timer 2	Uncommitted (output available)

Timer 0

Resolution	1µS
Minimum Time	2µS
Maximum Time	130mS

Timer 1

Resolution	timer 0 output value
Minimum Time	4µS
Maximum Time	2.3 hours

Timer 2

Resolution	1µS
Minimum Time	2µS
Maximum Time	130mS

Board Connectors

PC ISA 8-bit card

Analogue Signals: 50 Way Male 'D' Type

Digital Signals: 50 Way IDC Male Box Header

Options

- 50 way screw terminal adapter
- 1 metre cable with IDC and D type connector
- Windows® 3.1 DLL driver



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