

CARTE DE CONVERSION ANALOGIQUE NUMÉRIQUE

CIO-DAS08

Power consumption

+5V quiescent 500 mA typical, 750 mA max

Analog Input Section

A/D convertor type AD674A, Successive Approximation

Resolution 12 bits

Number of channels 8

Programmable ranges (CIO-DAS801) $\pm 10V$, $\pm 5V$, $\pm 1V$, $\pm 0,5V$, $\pm 0,1V$, $\pm 0,05V$, $\pm 0,01V$, $\pm 0,005V$,
0 to 10V, 0 to 1V, 0 to 0,1V, 0 to 0,01V

Programmable ranges (CIO-DAS802) $\pm 10V$, $\pm 5V$, $\pm 2,5V$, $\pm 1,25V$, $\pm 0,625V$, 0 to 10V, 0 to 5V, 0 to 2,5V,
0 to 1,25V

A/D pacing Programmable: internal counter or external source (IR Input / XCLK,
falling edge) or software-polled

A/D Trigger sources External hardware (Digital In 1 / Trig, rising edge)

Data transfer Interrupt or software-polled from 256-sample FIFO buffer

Polarity Unipolar/Bipolar programmable

Channel configuration Differential (or pseudo-differential with installation of a SIP resistor) or
single-ended, switch-selectable for each channel

DMA None

A/D conversion time 20 μs

Throughput 50 kHz

Accuracy $\pm 0,01\%$ of full scale ± 1 LSB typ, $\pm 0,05\%$ of full scale ± 1 LSB max

Differential Linearity error $\pm 0,5$ LSB max

Integral Linearity error ± 1 LSB

No missing codes (guaranteed) 12 bits

Gain drift (A/D specs) ± 50 ppm/ $^{\circ}C$

Zero drift (A/D specs) ± 10 ppm/ $^{\circ}C$

Common Mode Range $\pm 10V$

CMRR @ 60Hz

Gain = 1 70 dB min

Gain = 10 90 dB min

Gain ≥ 100 100 dB min

Input leakage current (@ 25 deg C) ± 30 nA

Input leakage current (over temperature) ± 250 nA

Input impedance > 1000 Megohms typical

Absolute maximum input voltage $\pm 35V$

LABTECH NOTEBOOK

Real-time Data Acquisition, Analysis, & Control Software for Windows®

FEATURES

- Easy-to-use, object-oriented software environment; no programming required
- Real-time, multitasking data acquisition, data display, data logging, and process control
- Open architecture design supports over 1000 I/O devices from more than 50 manufacturers
- Remotely view real-time data across any TCP/IP-based network, including intranets and the World Wide Web
- Fast Pentium support for both new and old data acquisition and control devices
- On-line mathematics, statistics, and logical calculations
- High-speed DMA, Ramp and Soak, and Cascade Control (NOTEBOOKpro)
- High accuracy thermocouple measurements via digital filtering
- High speed data transfers using *LT-Speedway* or custom Visual Basic or C/C++ code
- Year 2000 compliant

GENERAL DESCRIPTION

LABTECH NOTEBOOK software turns your PC into a powerful data acquisition and control system, ideal for such applications as product testing, environmental monitoring, materials research, medical instrumentation, and chemical research, NOTEBOOK handles a variety of analog and digital inputs and outputs, including thermocouples and counter/timers, and provides fast Pentium support for over 1000 I/O devices,