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TECHNOLOGY GROUP

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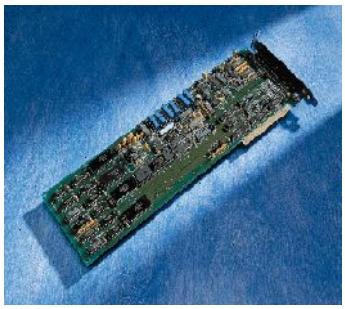
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Find the *Measurement Computing / Data Translation DT01-EZ* at our website: *Click HERE*

Section: Data Acquisition

IBM PC ISA BUS HARDWARE
Low Cost Boards
DataAcq-EZ (DT01-EZ, DT16-EZ)

DT01-EZ & DT16-EZ



Low Cost Analog and Digital I/O Boards for the IBM® PC.

The DT01-EZ and DT16-EZ are low cost IBM PC-compatible analog and digital I/O boards. Their high accuracy analog design delivers more data more accurately, preserving the integrity of your samples. Software-compatible with Data Translation's popular DT2801 Series, the DT01-EZ and DT16-EZ are supported by dozens of software packages including VB-EZ™ and DT VEE™ for Windows.®

Summary

A/D: 12 or 16 bits; 7.5 or 27.5kHz throughput; gains of 1, 2, 4, 8

D/A: 2 DACs; 12 bits; 14.8 or 29.5kHz throughput

Digital I/O: 16 lines (two 8-line ports)

Interface: Single-channel DMA (supports Continuous Performance gap-free transfers) or programmed I/O

Easy-to-Use Data Acquisition Solution
Combine the DT01-EZ or DT16-EZ with your choice of compatible software products and the low cost STP-EZ screw terminal panel, and you have a complete, low cost data acquisition solution.

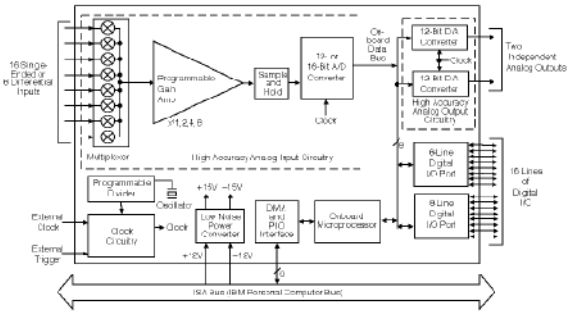
High Accuracy Analog Design Assures High Integrity Results
Your results can be no better than the data you start with. The DT01-EZ and DT16-EZ were meticulously designed to retrieve your real-world data with maximum accuracy. Analog design is as much an art as a science: The DT01-EZ and DT16-EZ reflect our more than twenty years of experience designing accurate, reliable data acquisition products.

FCC Class A Verified for Your Protection
The DT01-EZ and DT16-EZ are verified to FCC Class A EMI noise emission standards, even when used in a typical installation that includes the STP-EZ screw terminal panel. This assures you that they will not degrade the noise performance of the system in which they are installed.

Most Extensive Software Support
The DT01-EZ and DT16-EZ are among the industry's best supported data acquisition boards.* For nonprogrammers, comprehensive data acquisition, analysis, and display support is available using DT VEE for Windows. Programmers can choose VB-EZ or DataAcq SDK.™ A DT-Open Layers®-compliant software driver ships free with each board.

*The DT01-EZ and DT16-EZ can be used with any of the many software products that support the popular DT2801 Series of boards. Call for details.

DT01-EZ and DT16-EZ Block Diagram



Click on the thumbnail above to view the DT01-EZ and DT16-EZ block diagram.

Analog Inputs

		DT01-EZ	DT16-EZ

Resolution		12 bits	**16 bits**
Throughput		27.5kHz	7.5kHz
Input Channels		16SE/8DI	8DI
Channel Selection	**Any Channel Singly**	✓	✓
	Sequential Channel Scan	✓	✓
Input Ranges	**Software-Programmable Gains**	1,2,4,8	1,2,4,8
	Ranges (including gain)	**0-1.25,2.5,5,10V ±1.25,2.5,5,10V**	**0-1.25,2.5,5,10V ±1.25,2.5,5,10V**
Overvoltage Protection		±35V on, ±20V off	±35V on, ±20V off
ESD Protection		to 1.5kV	to 1.5kV
Accuracy	**System Error (at gain of 1) Max**	±0.05% FSR	**±0.02% FSR**
	Effective Number of Bits (Typical)	11	14

Analog Outputs

	DT01-EZ	**DT16-EZ**
Resolution	12 bits	12 bits
Output Channels	2 independent DACs	2 independent DACs
Throughput	29.5kHz/DAC 33kHz aggregate	14.8kHz/DAC 16kHz aggregate
Ranges	0-5,10V/±2.5,5,10V	0-5,10V/±2.5,5,10V
Accuracy	0.05%	0.05%

Specifications

All specifications are typical at +25°C and rated voltage,
unless otherwise specified.

DIGITAL I/O

Number of Lines
16, organized as two groups of 8 that can be set for input or output

Fanout
30 LSTTL loads

Input Load
1 LSTTL load

ONBOARD MICROPROCESSOR

Handles board timing, data transfers, error checking, and performs diagnostic check on powerup. Also provides command interpreter.

OPERATION

Triggers and Clocks
Onboard A/D and D/A clocks; onboard or external oscillator; software or external hardware trigger

Data Transfer
Programmed I/O and single-channel DMA with Continuous Performance gap-free operation

GENERAL

Interface
ISA Bus, for use with IBM PC compatibles; I/O mapped, 10-bit I/O address; 8-bit data path; 1 DMA channel

Power Requirements
+5V @ 650mA, +12V @ 200mA, -12V @ 50mA; low-noise ±15V generated onboard to power analog circuits

Physical/Environmental
Dimensions--
full-size ISA board mechanically EISA-compatible for any available system slot; 9.91 x 33.40 x 2.54 cm (3.9" x 13.15" x .1.0")

Temperature--
operating: 0 to 55&#176C; storage: -25 to 85&#

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