



ESA DIGITAL I/O CARDS

Electro Systems Associates Pvt. Ltd. (ESA) manufactures various types of Microprocessor Trainers, In-Circuit Emulators, EPROM Programmers and PC Add-on Cards which can be used for various purposes like position control, lab automation etc. One group of such PC-Add-ons is Digital I/O Cards which find application in instrumentation and control where the digital data from instruments like DPMs, Frequency Counters is to be collected by a PC or where the status of the digital signals from various sources are to be sensed. These cards can also be used for event counting, pulse width measuring. The output from these cards can be used to actuate external devices like stepper motors, relays, LEDs etc.



ESA manufactures a variety of Digital I/O Cards such as ESA PCI-DIOT (Digital I/O and Timer), ESA ISA-DIO24 (24 Digital I/O), ESA ISA-DIO48 (48 Digital I/O), ESA ISA-DIO144 (144 Digital I/O), ESA ISA-DIOD (Digital I/O through discrete TTL ICs) and ESA ISA DIOT (Digital I/O and Timer) for PC compatible systems. These cards can be inserted in any one of the free expansion slots of the PC.

MODEL	PRODUCT DESCRIPTION	BUS
ESA ISA-DIO24	24-lines Digital I/O Card	ISA
ESA ISA-DIO48	48-lines Digital I/O Card	ISA
ESA ISA-DIO144	144-lines Digital I/O Card	ISA
ESA ISA-DIOD	48-lines Digital I/O Card with TTL ICs	ISA
ESA ISA-DIOT	48-lines I/O Card with 3 16 Bit Programmable Timers	ISA
ESA PCI-DIOT	48-lines I/O Card with 3 16 Bit Programmable Timers	PCI

SPECIFICATIONS

FEATURES

- ★ ISA, PCI Versions
- ★ Low Cost
- ★ 82C55 Based
- ★ User selectable I/O address

DIGITAL I/O Using 82C55 :

Input Spec :

Input high : 2.0V min 5.5V max
 Input low : 0.8V max
 Input current : $\pm 10\mu\text{A}$

Output Spec :

Sink : 2.5mA min @ 0.40V
 Source : -2.5mA min @ 3.0V

DIGITAL I/O Using TTLs :

(Emulates 8255 in Mode 0)

Input Spec :

Input high : 2.0V min
 Input low : 0.8V max
 Input current : 20 μA

Output Spec :

Sink : 24mA @ 0.5V
 Source : -5mA @ 2.4V

Software :

Windows driver supplied along with ESA PCI-DIOT only

OUR PRODUCT RANGE : Microprocessor Trainers for 8085, Z80, 8086/88, 68000; Microcontroller Trainers for 8051, 80C196, PIC Trainers, and Interface Modules; DSP Trainers ; In-Circuit Emulators; ROM Emulators; Microcomputer Development Systems; Universal Device Programmers; UV Erasers; PC compatible systems and Add-on Cards, AD/DA cards, DIO cards, Logic Analyzers, etc.; Microprinters and Software Development Tools.



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