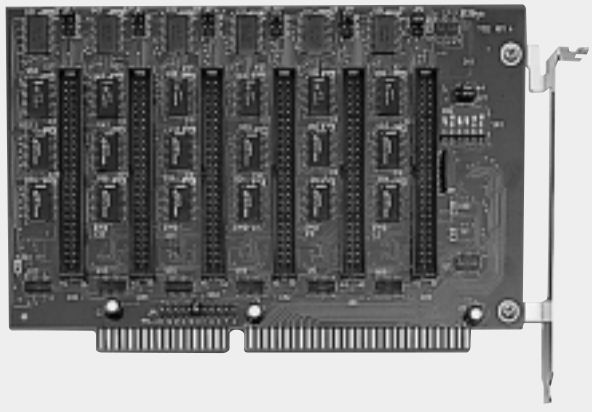
ACL-7122/PET-48DIO/ACL-7124

Opto-22 Compatible 144/48/24 DIO Cards

Features

- 144 DIO High density on ACL-7122
- 48 DIO with timer on PET-48DIO
- 24 DIO on ACL-7124 for low cost
- TTL/DTL compatible digital I/O channels
- Direct interface with OPTO-22 compatible I/O modules
  Emulates industry standard 8255 PPI (mode 0)
- Buffered circuits for high drive capacity
- Output status readback
- Programmable interrupt handling
- PC/AT bus with 11 IRQ levels
- Compact size, SMT components



ACL-7122

Specifications

Digital I/O

- I/O channels:
  - ACL-7122: 144 DIO channels
  - PET-48DIO: 48 DIO channels
  - ACL-7124: 24 DIO channels
- I/O characteristics: TTL/DTL Compatible
- Data transfer: Programmed I/O, Interrupt

Programmable Event Counter (PET-48DIO only)

- Counter Chip: 85C53 or equivalent
- Counter frequency: DC to 2MHz
- Counter range: 16 bit down counter
- Trigger edge: Rising or falling edge, programmable

Programmable Timer Pacer (PET-48DIO only)

- Timer clock: on board 32.768 kHz or 2 MHz
- Frequency divider: Programmable
- Timer resolution: 32 bits (two 16 bit counters cascaded)

Interrupt Control

- Available IRQ levels: (jumper selectable)
  - ACL-7122:11 IRQ levels
    3,4,5,6,7,9,10,11,12,14,15
  - PET-48DIO: 9 IRQ levels
    3,4,5,7,9,10,11,12,15
  - ACL-7124: IRQ 2,3,4,5,6,7
- IRQ sources: (Programmable)
  - ACL-7122: DIO Port C0, C3, C4
  - PET-48DIO:DIO Port C3, C7 or timer
  - ACL-7124: DIO Port C0, C4

General Specifications

- Operating temperature: 0˚ ~ 55˚C
- Storage temperature: -20˚ ~ 80˚C
- Humidity:5% ~95% non-condensing
- Power requirement (without external devices):

ACL-7122

- 1.40 A @ 5VDC (Typical)
- 1.80 A @ 5VDC (Maximum)

PET-48DIO

- 720mA @ 5VDC (Typical)
- 860mA @ 5VDC (Maximum)

ACL-7124

- 380mA @ 5VDC (Typical)
- 450mA @ 5VDC (Maximum)

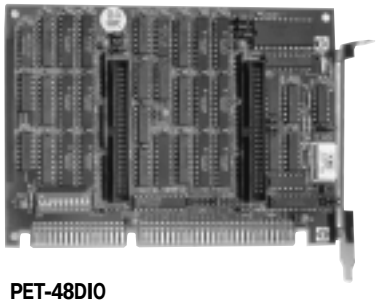
- Transfer rate: 500 K bytes/sec
- PCB dimension
  - ACL-7122: 183 mm x 119 mm
  - PET-48DIO: 170 mm x 121 mm
  - ACL-7124: 108 mm x 107 mm
- I/O connector: 50-pin male ribbon connector

Termination Boards

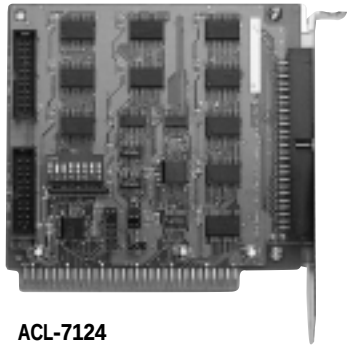
- TB24P
- TB24R
- TB-16P8R
- TB-24
- DIN-24R
- DIN-24P
- DIN-50P
- DIN-24G

Ordering Information

ACL-7122
144-bit Digital I/O Card
PET-48DIO
Programmable 48-bit DIO, Event, and Timer Card
ACL-7124
24-bit Digital I/O Card



PET-48DIO



ACL-7124

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000