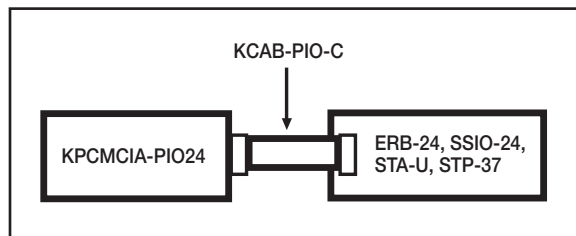# KPCMCIA-PIO24-C

24-Line Parallel Digital I/O Board

The KPCMCIA-PIO24-C is a digital I/O PCMCIA card for use with notebook and other PCs equipped with a PCMCIA port. This card is ideal for applications that demand alarm monitoring and parallel communication in field and laboratory environments where space is at a premium or portability is required. The KPCMCIA-PIO24-C features 24 TTL/DTL-compatible digital I/O lines, each of which is buffered to enhance the card's drive capability. The card has an external interrupt request line that can be used with an external clocking signal to coordinate reading or writing of digital data or for event notification.

Specifications

BUS TYPE: PCMCIA Type II. PC Card Standard 2.1 compliant.
PHYSICAL DIMENSIONS: Type II PCMCIA card (5mm).
DIGITAL INPUT & OUTPUT: TTL compatible.
INPUT/OUTPUT CURRENT: 25mA maximum.
CURRENT SOURCE/SINK:
   Sink: 6mA min. @ 0.33V.
   Sink: 20mA max. @ 1.0V.
   Source: 1.1mA max. into 0Ω at $V_{cc} = 5V$.
OPERATING TEMPERATURE: 0°C to 50°C.
STORAGE TEMPERATURE: 0°C to 70°C.
HUMIDITY: 0 to 95%, non-condensing.
EMC: Conforms to European Union Directive 89/336/EEC.
SAFETY: Meets EN61010-1/IEC 1010.
WEIGHT: 1.5 oz.

- **24 TTL/DTL-compatible digital I/O lines**
- **Compatible with industry standard PIO-12**
- **Unidirectional and bidirectional I/O**
- **PCMCIA Type II card**
- **Compatible with Keithley accessories**
- **Hot swapping supported**
- **32-bit DriverLINX drivers plus a suite of bundled software including ExceLINX, VisualSCOPE, TestPoint, and LabVIEW drivers**

Configuration Guide

```
                    KCAB-PIO-C
                        ↓
  ┌─────────────────┐  ┌──┐  ┌─────────────────┐
  │ KPCMCIA-PIO24   │──┤  ├──│ ERB-24, SSIO-24, │
  │                 │  └──┘  │ STA-U, STP-37    │
  └─────────────────┘        └─────────────────┘
```

APPLICATIONS

- **Portable data acquisition**
- **Digital I/O control**
- **Alarm monitoring**
- **Event counting**
- **Parallel communication**

Ordering Information

KPCMCIA-PIO24-C
   24-Bit Digital I/O PCMCIA card with KCAB-PIO-C

Accessories Supplied

Interface cable with software and user's manual on CD-ROM

ACCESSORIES AVAILABLE

ERB-24	Relay Card
SSIO-24[1]	Solid-State Digital I/O Card
STA-U	Universal Screw Terminal Accessory
STP-37	Screw Terminal Panel
STP-37/C	STP-37 with added bottom case
TESTPOINT	TestPoint Application Software

[1] Solid-state I/O modules must be purchased separately.

up & running software

Connector Pin Assignments

```
            DIG COM  19  │ ╲
                 NC  18  │  37  PA0
                COM  17  │  36  PA1
                 NC  16  │  35  PA2
            DIG COM  15  │  34  PA3   PORT A
                 NC  14  │  33  PA4
            DIG COM  13  │  32  PA5
                 NC  12  │  31  PA6
            DIG COM  11  │  30  PA7
                PB0  10  │  29  PC0
                PB1   9  │  28  PC1   LOWER
                PB2   8  │  27  PC2
                PB3   7  │  26  PC3        PORT C
    PORT B      PB4   6  │  25  PC4
                PB5   5  │  24  PC5   UPPER
                PB6   4  │  23  PC6
                PB7   3  │  22  PC7
                 NC   2  │  21  DIG COM
    INTERRUPT INPUT   1  │  20  NC
                        │ ╱

                            NC = NO CONNECTION

                    REAR VIEW
```