

# CAMAC ♦♦♦ S

## product catalog

---

Catalog Sheet PR-3  
**DUAL 24 BIT PARALLEL  
INPUT REGISTER**  
Model PR-604

---

The PR-604 series of parallel input registers are single width Camac modules with data entry thru front or rear mounted subminiature connectors. The modules contain necessary input circuitry, bistable latches and control logic for paralleling two sets of 24 bits of data.

Data inputs accept standard TTL levels with the "Load Data" input accepting CCSL levels. Data inputs may be latched into registers or read directly onto the dataway lines. Outputs from digital instruments such as DVMS, position encoders and counters are typical applications of the PR-601 thru PR-604 registers.

These parallel input registers may be set to three modes of operation: Continuous (register follow inputs), Strobed (external strobe at "Load Data" input registers) and Single Strobe data entry (registers must be reset by Camac control). As an option, indication of the register contents may be displayed on the front panel by LEDs.

### Operation Modes

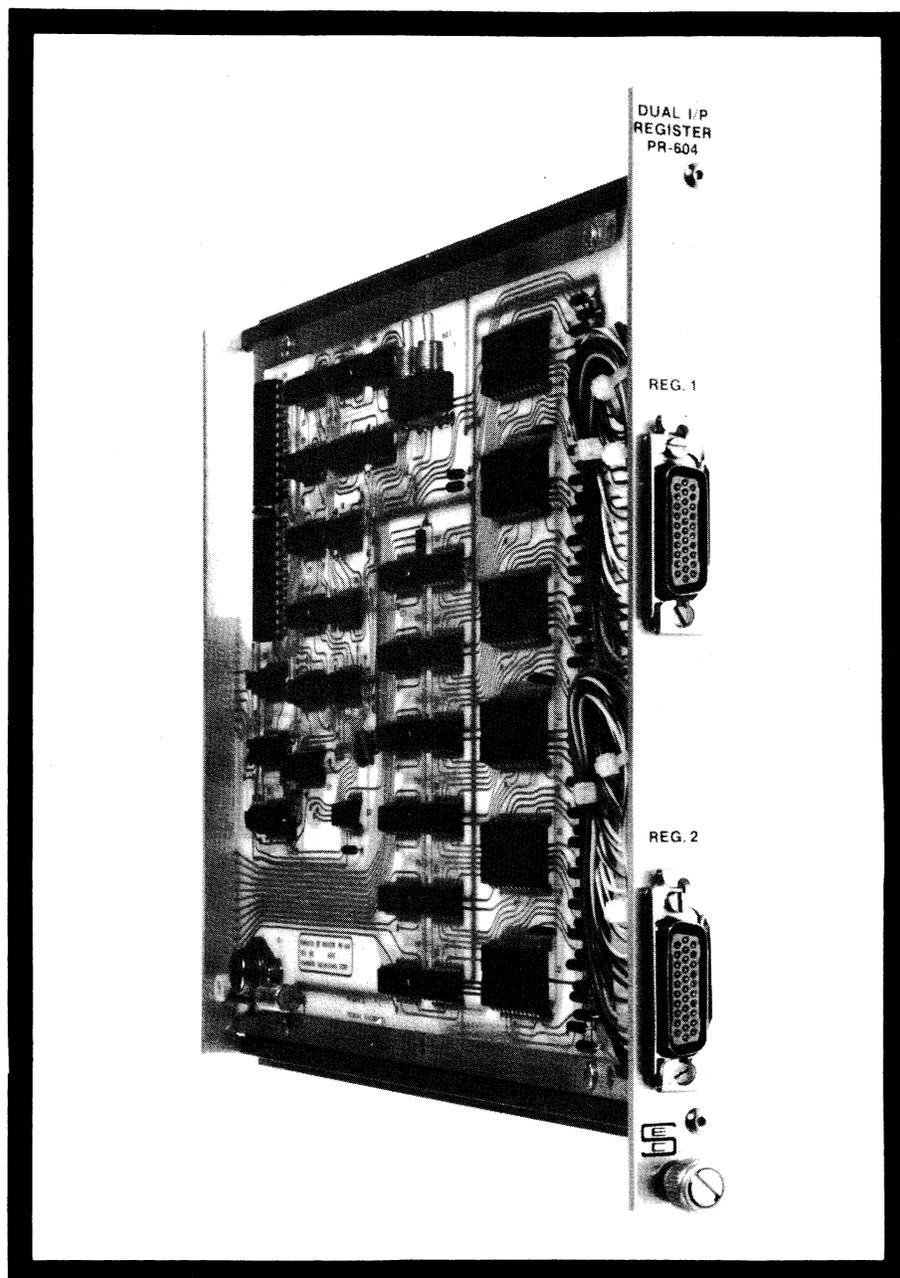
**Single Strobe Data Entry (latched):** The first positive CCSL "Load Data" input sets the "Data Ready" flag and latches the parallel information into the register. Further strobes are then inhibited until after a proper Camac command. This strobe-latching mode is set by a toggle switch placed within the module and put to the "L" position.

**Strobed Data Entry (strobe):** Upon any CCLS positive level strobe to the "Load Data" input, the data applied at the data inputs at that instant will be locked into the appropriate register. This mode is set by placing the toggle switch to the "S" position.

**Continuous Data Entry:** By shunting the "Load Data" input with less than 100 ohms to ground, the data applied at the inputs will be continually available to the dataway gates. The toggle switch must be set to the "C" position for continuous mode.

The Single Strobe Data Entry and the Strobe Data Entry modes set up the "Data Ready" flag operation which may be set to generate a LAM single upon the proper enable command by the Camac control.

The "Data Ready" flag is available at the input connector to control external devices.



**STANDARD ENGINEERING CORPORATION**

44800 INDUSTRIAL DRIVE • FREMONT, CALIF. 94538 • PHONE (415) 657-7555

## SPECIFICATIONS

### INPUT:

|                            |  |
|----------------------------|--|
| DATA and STROBE .....      | TTL Levels, Neg. logic<br>LOGIC "1" = .8V, LOGIC "0" = 2.7V          |
| LOADING (each input) ..... | 1 TTL Load   |
| STROBE WIDTH .....         | 50 nano-second min.  |
| Connector PR-604 .....     | 2-31 pin Double Density Cannon (2DA31P)                              |
| PR-604/K .....             | Single 52 pin Double Density Cannon<br>(2DA52P) mounted at the rear  |
| PR-604/F .....             | Single 52 pin Double Density Cannon<br>(2DA52P) mounted on the front |

### OUTPUT:

|                                   |                               |
|-----------------------------------|-------------------------------|
| DATA RECEIVED (PR-604 only) ..... | TTL Open Collector IK pull-up |
|-----------------------------------|-------------------------------|

### CAMAC FUNCTIONS:

|   |   |
|---|---|
| C .....                                     | Clear   |
| Z .....                                     | Initialize                                      |
| NA <sub>(0,1)</sub> F <sub>(0)</sub> .....  | Read Register Q=1                               |
| NA <sub>(0,1)</sub> F <sub>(2)</sub> .....  | Read and Clear Single Strobe<br>Latch Q=1       |
| NA <sub>(0,1)</sub> F <sub>(8)</sub> .....  | Read Flag (LAM) Q=1 for data<br>ready           |
| NA <sub>(0,1)</sub> F <sub>(10)</sub> ..... | Read and Clear Flag (LAM)<br>Q=1 for data ready |
| NA <sub>(0,1)</sub> F <sub>(24)</sub> ..... | Disable LAM                                     |
| NA <sub>(0,1)</sub> F <sub>(26)</sub> ..... | Enable LAM                                      |

### POWER REQUIREMENTS:

|                        |               |
|------------------------|---------------|
| Standard .....         | +6V @ 1.2 AMP |
| With LED Display ..... | +6V @ 1.7 AMP |

### MECHANICAL:

Single Width CAMAC module

### MODULES AVAILABLE:

|                   |                            |
|-------------------|----------------------------|
| PR-604 .....      | Dual 24 Bit Register       |
| /K Versions ..... | Input at Rear of Module    |
| /D Versions ..... | LED display on Front Panel |
| /F Versions ..... | Input on Front of Module   |