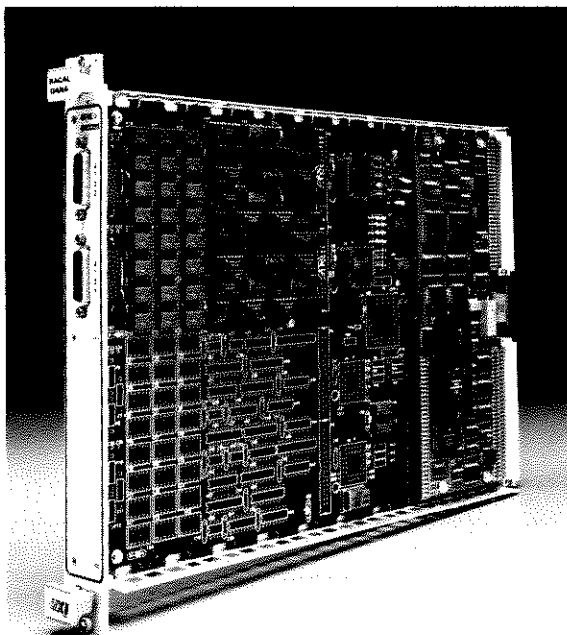


- Up to Eight Serial Interface Channels
- Configurable as RS-232, RS-422, RS-423 or RS-485
- 128k/512kBytes of Memory Allocatable to Input and Output Buffers
- Standard Baud Rates Selectable up to 38.4k Baud
- Ideal for Interfacing the VXIbus to Other Peripherals
- Easy Software Control
- 6065P Provides Software Programmable Data Rate

**Re-configurable Serial Interfaces**

The Racal Instruments 6065 is available as either an eight channel or four channel module. Each individual channel can be configured, under software control, to be an RS-232, RS-422, RS-423 or RS-485 interface. Any combination of interface standards can be user configured on the same card without opening the unit.

The ability to have Request to Send (RTS)/Clear to Send (CTS) hardware handshaking is also available for faster data communications. RTS/CTS is activated under program control. Data Terminal Ready (DTR)/Data Set Ready (DSR) control lines are also provided.

In addition, each individual channel can be looped back on itself at the line driver/receiver level under program control in order to perform a full self test of the Model 6065.

**Easy Software Control**

The Model 6065 is a high performance, message-based

module that can accommodate transmitting and receiving on all eight channels simultaneously.

All of the key protocol parameters (baud rate, word length, parity checking, and handshaking), are software programmable on each of the eight channels. These configurations can then be stored in non-volatile memory for added flexibility and ease of setup. Device dependent commands meet the Standard Commands for Programmable Instruments (SCPI) specifications.

**Flexible Memory Eases Data Throughput**

128kBytes of transmit and receive memory (512kBytes option) are user allocatable among the eight channels, allowing complete flexibility for all interface applications. These buffers can be loaded under program control in either a repetitive loop mode controlled by an internal timer or burst mode.

Each buffer is supported by a programmable threshold which can be set to any level within the buffer.

## 6065/6065P SPECIFICATIONS

### Buffer Size

128k or 512kBytes input and/or output

### Serial Port

#### Baud Rate

300, 600, 1200, 2400, 4800, 9600, 19200,  
38400

#### Data Length

5, 6, 7, 8

#### Receive Jitter Tolerance

4.5%

#### Parity

None, odd, even and mark or space

#### Stop Bits

1,2

#### Handshaking

Software: X ON/X OFF

Hardware: DSR and CTS for output pacing

### Power Requirements ( $I_{pm}$ )

+5 V: 2 A

±12 V: 100 mA

±24 V: 200 mA

### Weight

2.20 lb (1kg)

### Dimensions

C-size, Single-slot VXibus Module

### VXibus

Message-based Revision 1.4 compatible

ORDERING INFORMATION		
Model	Description	Part Number
6065-4	4-Channel Serial Interface Module	70-006-000
6065-8	8-Channel Serial Interface Module	70-0036-001
6065-4 w/512kB	4-Channel Serial Interface Module w/ 512kB	70-0036-003
6065-8 w/ 512kB	8-Channel Serial Interface Module w/ 512kB	70-0036-004
6065P-4	4-Channel Serial Interface with Programmable Data Rate	70-0036-007
6065P	8-Channel Serial Interface with Programmable Data Rate	70-0036-008
98072*	Instruction Manual	980728