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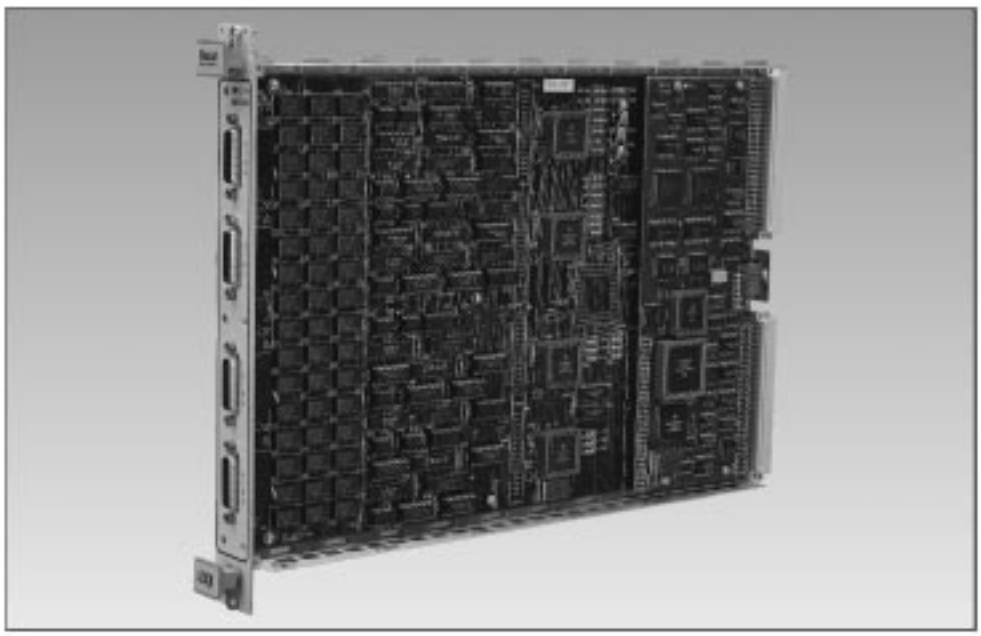
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Multiple Channel Serial Interface Module Model 6065P



- **Up to Eight Serial Interface Channels**
- **Configurable as RS-232, RS-422, RS-423 or RS-485**
- **512kBytes of Memory Allocatable to Input and Output Buffers**
- **Programmable to Any Baud Rate from 1.7 Baud to 125k Baud**
- **Ideal for Interfacing the VXIbus to Other Peripherals**
- **Easy SCPI Software Setup and Control**

Re-configurable Serial Interfaces
The Racal Instruments 6065P 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.

Software handshaking (XON/XOFF) or hardware handshaking with RTS/CTS is software selectable. 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 6065P.

Easy Software Control
The Model 6065P 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 channel. The baud rate is programmable to standard and custom baud rates up to 125k baud. The 6065P supports baud rates to 38400 with no “dead” time. 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.

For your local Racal Instruments Sales Office see page 173.

Flexible Memory Eases Data Throughput
512k Bytes of transmit and receive memory are user allocatable among the eight channels allowing complete flexibility for all interface applications. Transmit buffers can be unloaded under program control in either a repetitive loop mode controlled by an internal timer or in burst mode.

Each receive buffer is supported by a programmable input buffer to prevent overflow conditions.



6065P Soft Front Panel from WIN Framework Driver

Real-time Operation
The 6065P-4 has been tested in applications requiring simultaneous, multi-channel receiver/transmit operations in real-time. For eight channel real-time applications, it is recommended that two 4-channel modules are used. Real-time operation on all eight channels of 6065P-8 is possible using “block” transmit mode.

6065P Specifications

TRANSMIT AND RECEIVE BUFFER

Size
512k Bytes

Capacity
256k Characters

Configurability of XMIT and RCV Buffers
6065P-4: 2 to 256k Characters allocatable across 4 transmit buffers and 4 receive buffers
6065P-8: 2 to 256k Characters allocatable across 8 transmit buffers and 8 receive buffers

Data Formats
ASCII, Hexadecimal and Integer

SERIAL PORT PARAMETERS

Baud Rate
Programmable: 1.7 baud to 125k baud

Data Length
5, 6, 7 or 8 bits

Receive Jitter Tolerance
4.5%

Parity
None, odd, even and mark or space

Stop Bits
1, 2

Handshaking
Software: XON/XOFF
Hardware: DSR and CTS for output pacing

MODES OF DATA TRANSMISSION

Block Mode
Transmission begins with SCPI command or trigger. Characters are not erased after transmission.

Character Mode
Transmission begins immediately. Characters are erased after transmission.

Burst Mode
Single burst of characters after a trigger.

Timed Mode
Transmission starts with a trigger and repeats at timed intervals

VXIbus INTERFACE DATA

(Single-slot, C-sized, VXIbus Rev. 1.4)

Peak Current & Power Consumption

	+24V	+12V	+5V	-12V	-24V
I_{Pm}(A)	0.2	0.1	2	0.1	0.2
I_{Dm}(mA)	.23	2.0	1.8	2.1	0.4

Total Power: 22 Watts

Weight
2.20 lb (1kg)

Software Control
SCPI, IEEE-488.2

Drivers
LabVIEW, LabWindows/CVI, VXI*plug&play* (WIN, WIN95, WIN NT Frameworks)

EMC (Council Directive 89/336/EEC)
EN55011, EN50082-1

Safety (Low Voltage Directive 73/23/EEC)
EN6010-1, EC1010-1, UL3111-1, CSA 22.2 #1018

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.

ORDERING INFORMATION

Model	Description	Part Number
6065P-4 w/512kB	4-Channel Serial Interface Module w/512kB	70-0036-010
6065P-8 w/512kB	8-Channel Serial Interface Module w/512kB	70-0036-011

WORLDWIDE SUPPORT

http://www.racalinst.com

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001

VXI plug&play

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