

**Leading Edge Technology
at competitive prices**

Highlights...

- ▶ **2, 4 or 8 asynchronous channels, up to 1.8 Mbps**
- ▶ **128 byte FIFO buffer on each transmit and receive channel**
- ▶ **"Plug and Play" PCI card**
- ▶ **Line interfaces RS-232, RS-422 or RS-485 (automatic line turnaround)**

xRSPCI Range

SIMPLE AND AFFORDABLE

The new range of PCI bus multi-port serial cards from ACKSYS combines high performance, ease of use, robustness, and reliability at very competitive prices. This multipurpose range includes 2, 4, and 8 channel cards for RS-232, 422 or 422/485.

PERFORMANCE ...

Featuring state-of-the-art communication controllers (UARTS), the xRSPCI range reduces host CPU time by up to 75% compared with existing PCI cards.

This level of performance is made possible by the full-scale PCI interface (33 MHz/32 bit) integrated in the UARTS, unlike traditional architectures.

The 128 byte per channel FIFO buffer memory means the cards can manage multiple communication lines at much higher rates than traditional cards, and ensures the reliability of received data.

A "high resolution" baud generator can handle custom transmission rates besides the standard rates (up to 1.8 Mbps).

EASE OF USE...

ACKSYS device drivers enable the on-board UARTS to be addressed as traditional COM1/COM2 ports (including full support of the WIN32 API).

SECURITY ...

In RS 485 mode, line turnaround is usually software-controlled, a fact which often leads to conflicts. The xRSPCI card performs automatic line turnaround to guarantee optimal performance in RS-485 mode, independently of the baud rate or operating system.

RELIABILITY...

Highly integrated, MTBF > 10⁶ POH, ESD Protection 15 KV:

3 key advantages that guarantee reliability and robustness.



LIFETIME WARRANTY



SPECIFICATIONS

Serial Controller

UART 16950 (Compatibility mode with 16550)

Number of channels	2, 4 or 8
Baud Rates	Up to 1.8 Mbps ⁽¹⁾ . Users can select standard or non-standard baud rates (that are not multiples of traditional rates)
Data Formats	Asynchronous. 5, 6, 7, or 8 bits per character. 1, 1 1/2, 2 stop bits. Parity: Even, Odd, Mark, Space, or none.
Buffer size	128 byte FIFO buffer on each transmit and receive channel Programmable FIFO threshold
Flow control	Hardware (RTS/CTS) and/or software (XON/XOFF)
Electrical Interface (2)	
Line Interface	RS-232, RS-422/RS-485, RS-422 On-board management of automatic line turnaround in RS-485 mode
Connectors	Sub D 9, Sub D 25, Sub D 62 (RJ45: on request, depending on quantity)
Protection	All signals are protected against electrostatic discharge (ESD 15 KV), HF filtering
General Features	
Dimensions	Complies with PCI 2.1 and 2.2 standards 140 mm (L) x 106 mm (W)
Power Consumption	+5V: 400 mA max.
Operating Temperature	-5°C to +65°C (our manufacturing process includes cyclical tests between -20°C and +80°C)
Environment and safety	89/336/CEE, NF-EN55022 (class B),NF-EN55024, NF-EN50082-2, EN61000-4-2 to -4-8, ENV50204, NF-EN60950, EN50102, IEC61131-2, IEC695-2-1, IEC68-2-1, IEC68-2-2,IEC68-2-6, IEC68-2-14, IEC68-2-27, IEC68-2-32
Software Control	
Drivers	Controlled like standard COM ports Windows 9x, Windows NT, Windows Millennium, Windows 2000, Linux Support for advanced features (baud rate > 115.2 Kbps, 128 byte FIFO, automatic flow control)
Applications	Industrial computing, Industrial automation, Access control, Ticketing, Banking systems (ATM), POS terminals.

(1) Depends on electrical interface

(2) For all channels, must be specified with order

HOT LINE
+33 1 39 11 62 81

REFERENCES

Line Interface	Connectors	8 channels	4 channels	2 channels
RS232	SUB D9 male	/	/	2RSPCI-232
	SUB D62 Female	8RSPCI-232-0	4RSPCI-232-0	/
	octopus cable	8RSPCI-232-9	4RSPCI-232-9	/
	SUB D9 male			
	RJ 45 (bulk orders)	/	4RSPCI-232-R	2RSPCI-232-R
RS422/485	SUB D9 Female	/	/	2RSPCI-400
	SUB D62 Female	8RSPCI-400-0	4RSPCI-400-0	/
	octopus cable	8RSPCI-400-25	4RSPCI-400-25	/
	SUB D25 male			
	RJ 45 (bulk orders)	/	4RSPCI-400-R	2RSPCI-400-R
RS 422	SUB D9 Female	/	/	2RSPCI-422
	SUB D 62 Female	8RSPCI-422-0	4RSPCI-422-0	/
	octopus cable	8RSPCI-422-25	4RSPCI-422-25	/
	SUB D25 male			
	RJ 45 ((bulk orders)	/	4RSPCI-422-R	2RSPCI-422-R