

104-COM-85 & 104-COM-45

8- or 4-Port RS-422/485

PC/104 SERIAL COMMUNICATION



The 104-COM-8S and 104-COM-4S are eight and four port, asynchronous, serial communication boards that support both RS-485 and RS-422 communications. Ideal for POS, gaming systems, machine monitoring, military, and high-density networking applications, these boards may be installed in any system with PC/104 support. Ports are accessed via a 50-pin IDC type right angle connector.

This board may be operated in two modes. In the Default Mode, the base address for the board is selected by jumpers and all of the channel addresses are sequential. Alternately, the addresses and interrupts of the individual channels may be stored in non-volatile memory on the board and loaded into programmed logic when the board is initially powered. Individual

interrupts for each channel are programmed into the non-volatile memory in both modes.

The boards include a convenient Auto-RTS feature, which makes half-duplex RS-485 communications effortless. The 104-COM-8S and-4S offer optional type 16850 UARTS with 128-byte transmit/receive FIFO buffers to protect against lost data in multitasking systems while maintaining 100% compatibility with all operating system COM port drivers. A jumper selection on the board permits baud rate capability up to 921.6K. ACCES offers the 104-COM-8S and 4S in both standard and extended temperature versions ideal for outdoor applications or harsh industrial surroundings.

SOFTWARE

The 104-COM-8S and -4S are supported for use in all operating systems and include a free DOS, Linux and Windows 95/98/Me/NT/2000/XP/2003 compatible software package. This contains sample programs and source code in "C" and Pascal for DOS, and Visual Basic, Delphi, C++ Builder, and Visual C++ for Windows. Also included is a graphical setup program in Windows. Embedded OS support includes Windows XPe and CE. An easy-to-use Windows terminal program simplifies verification of proper operation.



ACCES I/O Products, Inc. 10623 Roselle Street San Diego, CA 92121 Tel: (858) 550-9559 (800) 326-1649 Fax: (858) 550-7322 Email: contactus@accesio.com Website: www.accesio.com

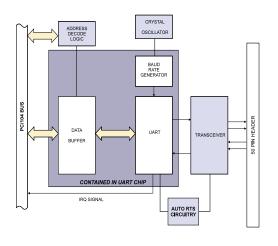


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Block Diagram & Pin Configuration



RS-422 Functions

RS-485 FUNCTIONS

Specifications Serial Ports

Number of Serial ports	8 or 4
Protocol	RS-422 and RS-485, independent for each port
Maximum baud rate	921.6K
Character length	5, 6, 7, or 8 data bits
Parity	Even, odd, or none
Receiver input sensitivity	±200mV differential input. Lines include factory bias and jumper selectable termination.
Common mode voltage range	+12V to -7V
Transmitter output	60mA with thermal shutdown. Lines include factory
drive capability	bias and jumper selectable termination.
drive capability Base address options	,

General	
I/O connections	Via a 50 pin IDC type right angle connector. There are four pins per port plus common grounds.
Short circuit protection	All outputs protected against continuous short circuit
Power required	+5VDC at 80mA typical, all outputs open
Operating temperature	-40 to +85°C optional, all versions
Operating humidity	5% to 95% RH, non-condensing
PC/104 bus	8-bit and 16-bit bus headers are used

Ordering Guide

104-COM-8S	8-port RS-422/485
104-COM-4S	4-port RS-422/485



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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660