

104-COM-85M 104-COM-45M 104-COM-25M

8-, 4-, or 2-Port RS-232/422/485

PC/104 SERIAL COMMUNICATION



The 104-COM-8SM Series are eight, four, or two-port, asynchronous, serial communication boards that support field selectable RS-232/422/485 communication. Ports are accessed via two 40-pin IDC type right angle header connectors. The boards include a convenient Auto-RTS feature, which makes half-duplex RS-485 communications effortless.

and IRQs simplifies installation

■ Programmable individual non-volatile base addresses

The 104-COM-8SM Series are featurerich and allow for the connection of multiple serial devices—ideal for a variety of applications such as POS, gaming systems, machine monitoring and control, military, high-density networking applications or any other application requiring the connection of RS-232/422/485 serial devices to a PC/104 compatible system. The 104-COM-8SM Series were designed using type 16780 UARTS and include 64-byte transmit/receive FIFO buffers to protect against lost data in multi-tasking systems while maintaining 100% compatibility with all operating system COM port drivers. A crystal oscillator located on the board permits baud rate capability up to 921.6K. The boards are offered in both standard and extended temperature versions - ideal for outdoor applications or harsh industrial surroundings.

SOFTWARE

The 104-COM-8SM Series 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.



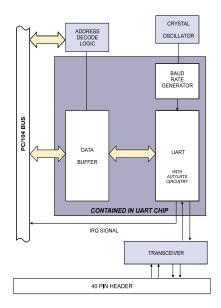
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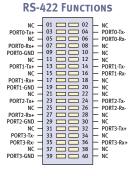


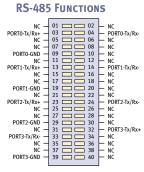
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Block Diagram & Pin Configuration







Specifications	
Serial Ports	
Number of serial ports	8, 4, or 2
Protocol	Full RS-232, 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 drive capability	60mA with thermal shutdown. Lines include factory bias and jumper selectable termination.
Base address options	Programmable

in non-volatile memory

Individual IRQs for each channel are stored onboard

General	
I/O connections	Via two 40 pin IDC type right angle connectors. There are eight 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

Interrupts

104-COM-8SM	8-port RS-232/422/485
104-COM-4SM	4-port RS-232/422/485
104-COM-2SM	2-port RS-232/422/485



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Specifications subject to change without notice.



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.

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