

# NMIS-5005 COM: SERIAL UART CARD

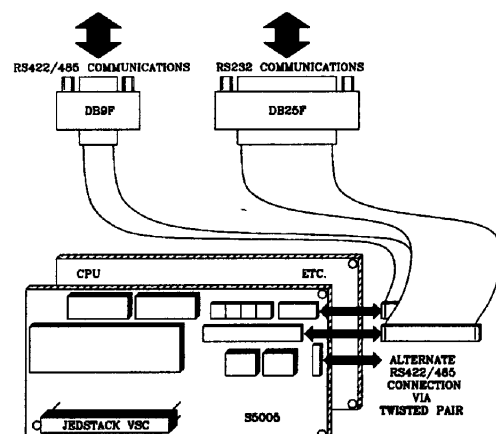
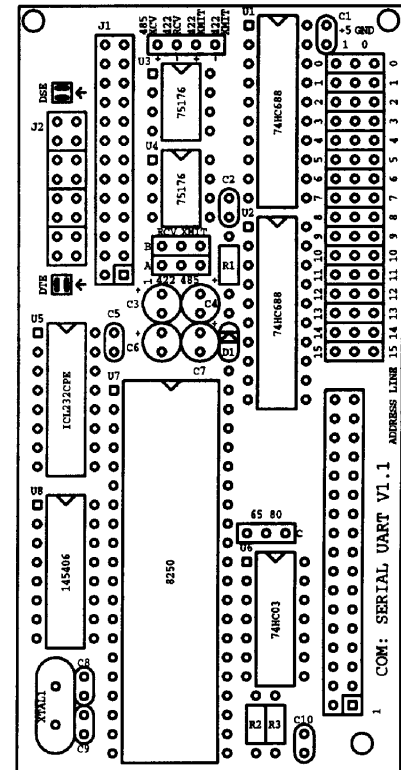
The NMIS-5005 Com: Serial UART Card, in 2x4"s™ format, provides a JEDSTACK™ computer system with an industry standard asynchronous serial data transmission capability (RS-232C, RS-422, modified RS-422, or RS-485). It is similar in function to an PC's serial port.

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- Full duplex RS-232, RS-422, modified RS-422, or RS-485 operation with buffered receiver and transmitter
- Data set/modem control functions (DTR, DSR, RTS, CTS, DCD & RI)
- Internal baud rate generator with programmable baud rates (50 to 56K)
- Programmable word lengths, number of stop bits, parity bit generation and detection
- Programmable control for transmit, receive, line status and data set interrupts
- Charge pump for +9V/-9V supplies
- Jumper selectable DTE or DSE configuration
- IBM PC serial port compatible design

The INS82C50 Universal Asynchronous Receiver/Transmitter (UART) device is memory mapped into the JEDSTACK-34™ system's address space by the card. J1 and J2 provide the RS-232 cable connection and configuration. J1 is an IDC, 26-pin cable connector, designed to accept a flat ribbon cable. The J2 connector is really not a connector at all, as such, but a jumper field to direct the correct signals to the connected equipment. Connector J3 is used for RS-422/485 signals. Only one standard, RS-232, RS422, or RS-485 can be selected at a time.

A Vertical Stacking Connector in the lower right hand corner (top view) provides connections to the processor's address and data bus, control signals, 5V power and ground. Address decoding of the UART chip's space in memory is accomplished by two octal comparators and 16 two-position jumpers. Each jumper setting corresponds to the state of a particular address line. The NMIS-5005 occupies 8 addresses. Any 8-byte boundary in the 64K address space of the JEDSTACK™ processor's bus can be selected by correct jumper placement.



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**2x4's**

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