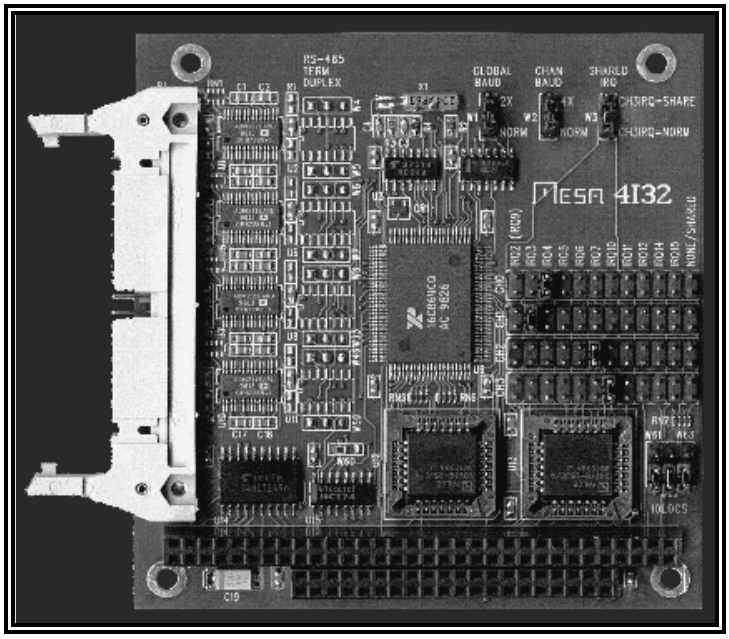
4I32 ADVANCED QUAD SERIAL

- Quad COMx compatible serial ports
- Downward compatible with 16C550
- 128 Byte receive and transmit FIFOs
- Baud rates to 921.6K baud
- 5V only operation
- Automatic hardware flow control
- Automatic software flow control
- Automatic RS-485 direction control
- Access to all AT bus interrupts
- Shared interrupt capability
- 40 pin latching header for serial I/O
- 4x RS-232, 4x RS-422/485 or 2 and 2
- Made in USA - local support
- 2 year warranty



The 4I32 is a low cost - high performance quad asynchronous serial port card in PC/104 format. The 4I32 is available in three versions: quad RS-232, quad RS-422/485, and dual RS-232 + dual RS-422/485.

The 4I32 uses an advanced 16C550 compatible UART with 128 byte receive and transmit FIFOs for higher baud rates and lower interrupt overhead.

The 4I32 UART supports automatic hardware and software flow control. Hardware flow control (RS-232 only) uses the RTS and CTS handshaking lines. Software flow control can use 1 or 2 character Xon and Xoff characters. Xon and Xoff characters are programmable.

RS-422 models support half and full duplex RS-422 and RS-485 modes. The 4I32 UART also supports automatic direction control for half-duplex RS-485 type applications, simplifying RS-485 support software. On card selectable 130 Ohm RS-422/485 termination is provided

Each serial port can use any of the 11 available interrupts ISA bus interrupts. Shared interrupts are also supported, allowing the four per channel interrupts to be logically ORed to a single interrupt. The ORed interrupts are individually maskable, and the interrupt status of all four channels can be read at a single location. The receive and transmit FIFO status of all four channels can also be read at a single location.

The Serial I/O connector on the 4I32 is a 40 pin latching header. The pinout is designed so that a flat cable from the 4I32 can easily be terminated with four IDC DE9 type connectors giving the standard AT serial port pinout. All RS-232 and RS-422/485 I/O pins are protected against 15KV ESD transients

Serial port I/O locations are determined by a PAL device and can be customized if needed. Eight sets of port locations can be selected by on card jumpers. The decode PAL is socketed to simplify changing the default decode addresses.

4I32 CONNECTOR PINOUT:

PIN#	RS-232 SIGNAL	RS-422 SIGNAL	PIN#	RS-232 SIGNAL	RS-422 SIGNAL
1	DCD3	GND	21	DCD1	GND
2	DSR3	RXDB3	22	DSR1	RXDB1
3	RXD3	NC	23	RXD1	NC
4	RTS3	NC	24	RTS1	NC
5	TXD3	TXDA3	25	TXD1	TXDA1
6	CTS3	NC	26	CTS1	NC
7	DTR3	RXDA3	24	DTR1	RXDA1
8	RI3	TXDB3	28	RI1	TXDB1
9	GND	GND	29	GND	GND
10	+5V	+5V	30	+5V	+5V
11	DCD2	GND	31	DCD0	GND
12	DSR2	RXDB2	32	DSR0	RXDB0
13	RXD2	NC	33	RXD0	NC
14	RTS2	NC	34	RTS0	NC
15	TXD2	TXDA2	35	TXD0	TXDA0
16	CTS2	NC	36	CTS0	NC
17	DTR2	RXDA2	37	DTR0	RXDA0
18	RI2	TXDB2	38	RI0	TXDB0
19	GND	GND	39	GND	GND
20	+5V	+5V	40	+5V	+5V

ORDERING INFORMATION:

4I32A	QUAD RS-232 ADVANCED SERIAL CARD
4I32B	DUAL RS-232 + DUAL RS-422/485 ADVANCED SERIAL CARD
4I32C	QUAD RS-422/485 ADVANCED SERIAL CARD

Add -I for industrial temperature range.