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LC 2+1 Sp...

SBus Connectivity

Low Cost 2 Port Serial and 1 Port Parallel Multiplexor...



LC 2+1 Sp

The MAGMA LC 2+1 Sp is a SBus expansion board that combines two high speed asynchronous serial ports with full modem control and one "Centronics" parallel port. The serial ports can be used to connect to ISDN Terminal Adapters, modems, terminals or any other RS-232 device. The parallel port can be used to connect to printers or plotters. It is fully compatible with Sun Microsystem's SPARC® computers and other computers compliant with SPARC® International SBus specifications.

Prices

Serial Hardware

The MAGMA LC 2+1 Sp is a single width SBus board based on the Cirrus Logic CD-1400 Serial/Parallel Asynchronous Communications Engine, a RISC I/O processor capable of controlling both serial ports. The CD-1400 has many advanced features which minimize CPU overhead, the most important include:

Each port's transmitter and receiver has it's own 12 byte FIFO buffer which minimizes the number of interrupts the CPU must service.

Flow control is handled automatically by the CD-1400, without intervention by the CPU.

Several MAGMA Sp boards can be configured in a system. The driver is optimized to reduce CPU utilization and treats all of the MAGMA Sp boards in the system as a single device. Multiple service requests can be handled in a single pass through the driver.

Parallel Hardware

The parallel port also uses the same Cirrus Logic CD-1400 chip. The parallel interface has a 30 byte FIFO buffer which serves as the interface to the SBus. Interrupts occur only when all of the data in the FIFO has been transferred, thereby minimizing CPU overhead.

The MAGMA LC 2+1 Sp can transfer data at rates up to 20,000 characters per second.

Software

The MAGMA LC 2+1 Sp device driver is designed to take advantage of the board's high speed serial and parallel capabilities. The driver is compatible with Solaris and SunOS 4.1+ and supports all features of both systems. It is delivered on 3.5" diskettes and features "plug and play" installation.



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