



THE RWS I/O PROCESSOR (IOP) CARD

The **RWS I/O Processor (IOP) card** is a buffered serial and parallel Input/Output peripheral card for Suding Bus computer systems. It occupies one I/O slot on the bus, and provides RS-232 asynchronous serial I/O, and TTL level parallel I/O for the system. Up to 5 IOPs can be installed in a standard RWS Suding bus computer system.

Standard features of the RWS IOP card include:

- Four RS-232 asynchronous serial channels capable of full duplex operation at baud rates from 300 to 19,200 baud.
- Availability of 7 and 8 bit word length, even, odd, or no parity, 1, 1.5, and 2 stop bits.
- Any combination of baud rates for the 4 serial channels, 2 channels which may have differing input and output baud rates.
- Available baud rates of 300, 600, 1200, 2400, 4800, 9600, and 19,200 baud.
- Two TTL 8 bit parallel port pairs.
- An onboard Z-80A CPU provides buffer management, and general management of the I/O ports, and host interface.
- A wire-wrap prototype area of about 30% of the card's area, available for custom application.
- An optional Z-80 CTC which can provide variable baud and odd baud rate support.

The **RWS IOP card** is implemented in industry standard LS-TTL and NMOS integrated circuit technologies. No custom or difficult to obtain parts are utilized. All integrated circuits are installed in sockets for ease of repairability. Full source code is provided for the onboard EPROM based firmware.

Software support is provided to integrate the IOP as a console device driver and printer drive in the CP/M, MP/M-II, OASIS and MOPS operating systems. Software support is provided for use as a communications device driver in the OASIS operating system. Printer device driver support code is provided for Suding Audio, DISKMON, and PHIMON operating system environment. Additional generalized sample support programs are furnished to allow use of the features of the card in custom environments such as CP/M modem programs. All processor card specific software support is furnished in source code.

Full disclosure of the electrical design of the IOP card is provided as a standard feature of the product. Both a complete schematic, and a component placement pictorial are furnished. A full manual includes parts lists, descriptions of the hardware and software design of the IOP, and programming and diagnostic information.

The standard RWS 13 month parts and labor warranty applies to this product.

ORDERING INFORMATION.

Customer specifies choice of initial serial channel queue configuration from two available no charge options, and custom configuration.