

# HD6321, HD63A21, HD63B21 CMOS PIA (Peripheral Interface Adapter)

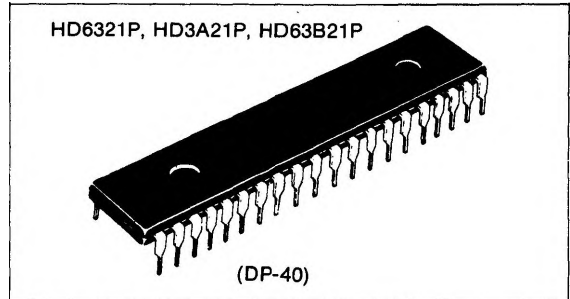
The HD6321 Peripheral Interface Adapter provides the universal means of interfacing peripheral equipment to the HD6800 Microprocessing Unit (MPU). This device is capable of interfacing the MPU to peripherals through two 8-bit bi-directional peripheral data buses and four control lines. No external logic is required for interfacing to most peripheral devices.

The functional configuration of the PIA is programmed by the MPU during system initialization. Each of the peripheral data lines can be programmed to act as an input or output, and each of the four control/interrupt lines may be programmed for one of several control modes. This allows a high degree of flexibility in the overall operation of the interface.

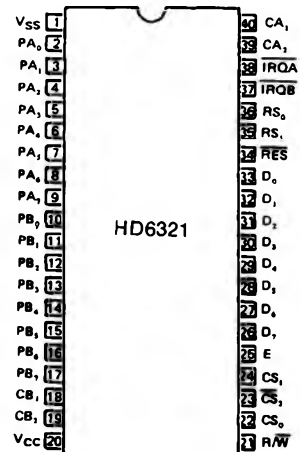
## ■ FEATURES

- High performance, low power CMOS process technology
- Two Bi-directional 8-Bit Peripheral Data Bus for interface to Peripheral devices
- Two Programmable Control Registers
- Two Programmable Direction Registers
- Four Individually-Controlled Interrupt Input Lines: Two Usable as Peripheral Control Outputs
- Handshake Control Logic for Input and Output Peripheral Operation
- High-Impedance 3-State and Direct Transistor Drive Peripheral Lines
- Program Controlled Interrupt and Interrupt Disable Capability
- CMOS Drive Capability on Side A Peripheral Lines
- Two TTL Drive Capability on All A and B Side Buffers
- Compatible with MC6821, MC68A21 and MC68B21

## ADVANCED INFORMATION



## ■ PIN ARRANGEMENT



(Top View)

## ■ BLOCK DIAGRAM

