

ID MOS Digital I.P. SHORTFORM

IM193: Programmable Interface Adapter

PRODUCT DESCRIPTION

The proposed PIA (Programmable Interface Adapter) is a general-purpose programmable I/O device. Its function is to interface peripheral equipment to the microprocessor system bus. The systems software programs the functional configuration of the adapter so that normally no external logic is necessary to interface peripheral devices or structures.

The PIA reduces the external logic normally needed to interface peripheral devices (printers, keyboards, displays, D-to-A and A-to-D converters, floppy disk controllers, machine tools, etc...).

FEATURES

- 8255A Compatible PIA
- Two Ports Containing 13 Programmable I/O Pins (one 8-bit port and one 5-bit port)
- Direct Bit Set/Reset Capability Easing Control Application Interface
- Designed for Controlling a Large Variety of I/O Devices
- Two Basic Modes of Operation

TYPICAL APPLICATIONS

- Printer, display, keyboard interface
- Machine tool interface
- Data acquisition interface

BLOCK DESCRIPTION

