N93N8042/A
CHIPS AT Keyboard Controller

Features

- IBM AT compatible keyboard controller software

- Functional equivalent to Intel 8042 UPI controller

- Fully compatible with Chips and Technologies AT System BIOS Products

- Supports turbo switch and turbo LED

- Supports speeds from 6 to 12 MHz

- Clean-room development methodology protects against copyright infringement

- Low cost manufacturing solution

- Available in DIP package

Overview

The CHIPS AT keyboard controller is a masked ROM/Microcontroller that is fully compatible with the IBM Keyboard controller software and Intel 8042 micro-controller. The CHIPS AT keyboard controller software was developed using a clean-room methodology which ensures that the keyboard controller software does not infringe upon any applicable copyrights.

Functional Description

The CHIPS AT Keyboard controller is fabricated with an N-channel silicon-gate MOS process (N-MOS). The controller has a 2Kx8 bit MASKED ROM for program memory, a 128x8 bit RAM for data memory, 18 I/O pins, an 8-bit timer/counter and clock generator on the chip. The microcontroller is designed to operate as a slave processor, which receives commands and data from the CPU, controls peripheral devices and transfers input data from peripheral devices to the CPU.

Related Publications

For more information on this device, refer to the following material:

UPI-41, 42:
8041AH/8042AH/8741AH/8742AH
Universal Peripheral Interface Controller;
Intel Corporation, 10/89, 210393-3

Ordering Information

CHIPS AT Keyboard Controller

Part # N93N8042/A, Ver. 2.14 (DIP)