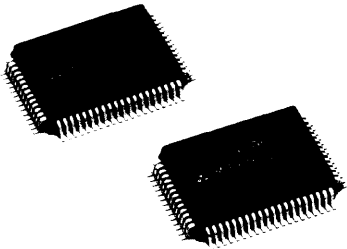


16 STANDARD LOGIC ICs HOUSED IN A SINGLE 68-PIN QFP PACKAGE CONTRIBUTES TO CONSIDERABLE PCB SPACE SAVING

M66802FP

[illegible]

In recent years, the demand for miniaturization for personal computers has been high and increasing number of lap top computers are produced. Only recently, A4-file-size or book-size computers have been produced, and some of them are likely to have built-in hard disks, thus, the demand for a high level of integration of peripheral ICs will climb higher yet.

To meet such demand for highly integrated ICs, Mitsubishi Electric has developed the M66802FP, which is a bus interface IC for ISA*-applicable personal computers and IDE**-applicable HDD, with our bipolar standard complex logic technology which realizes high integration and high output drive capacity. The M66802FP accommodates what were

previously 16 standard logic ICs in a single 68-pin QFP package, thus reducing the required PCB space considerably.

- * ISA (Industry Standard Architecture): Architecture for personal computers used as an international standard
- ** IDE (Integrated Drive Electronics): HDD interface suitable for ISA-applicable personal computers

F E A T U R E S

- High Drive Capacity
I_{OL} = 16mA (max.)
- Operating Temperature
– 20 ~ 65°C
– 20 ~ 70°C, when mounted on PCB
- Supply Voltage Range
V_{CC} = 5V ± 10%
- DISABLE/-ENABLE pin allows separation of HDD from the bus on the personal computer side.
- PRIMARY/SECONDARY pin allows selection of decoding of addresses A7 ~ A4 from F₁₆ or 7₁₆.

- Wired OR for \sim IOCS 16-pin open collector output.
- 16 standard logic ICs are housed in a single 68-pin plastic molded QFP package.
- MAST (Mitsubishi Advanced Schottky TTL) process: a bipolar oxide film separation process is used for the wafer process.

A P P L I C A T I O N S

Personal computers, HDD interface

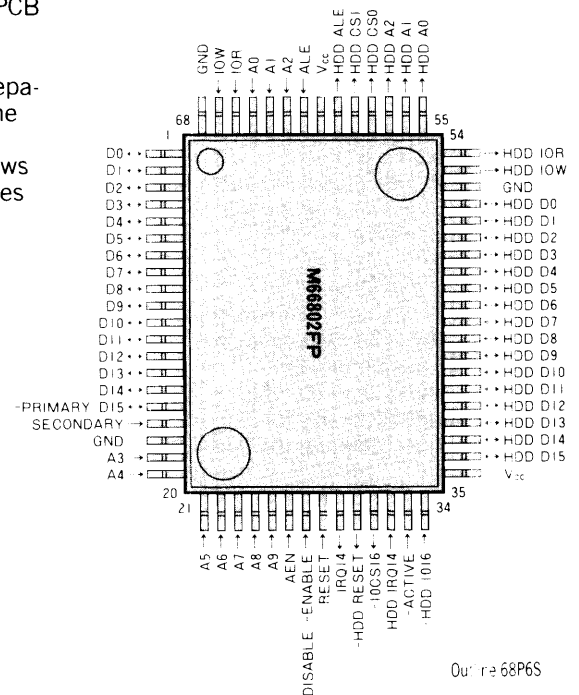


Fig. 1 Pin Configuration (Top View)

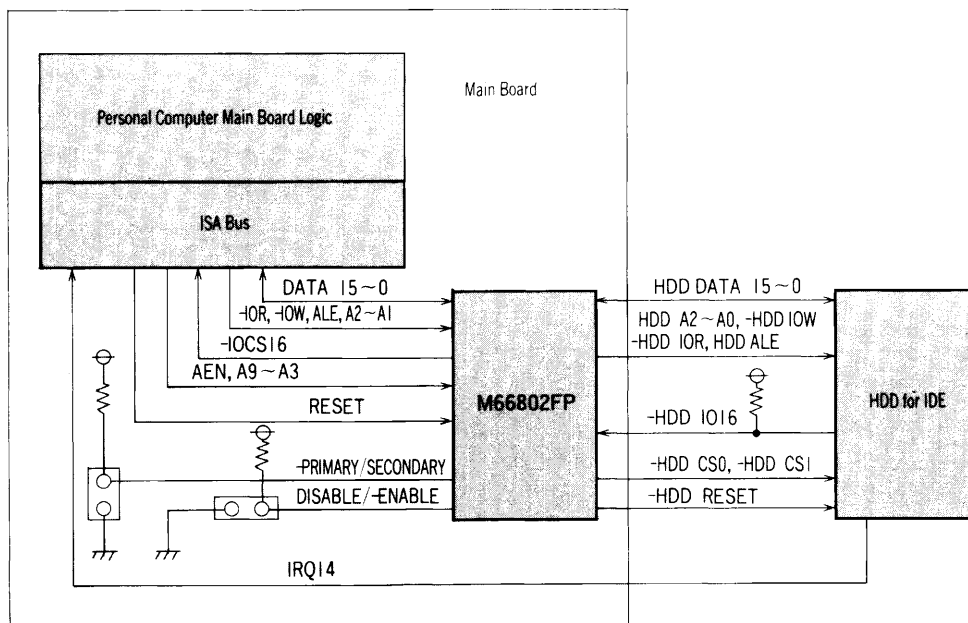


Fig. 2 Example of System Configuration of HDD Bus Interface I₁ (M66802)