

MITSUBISHI MICROCOMPUTERS

M37704E2EXXFP

PROM VERSION of M37704M2EXXFP

DESCRIPTION

The M37704E2EXXFP is a single-chip microcomputer designed with high-performance CMOS silicon gate technology. This is housed in a 80-pin plastic molded QFP. The features of this chip is similar to those of the M37704M2EXXFP except that this chip has 16K-byte PROM built in.

This single-chip microcomputer has a large 16M bytes address space, three instruction queue buffers, and two data buffers for high-speed instruction execution. The CPU is a 16-bit parallel processor that can also be switched to perform 8-bit parallel processing. This microcomputer is suitable for office, business, and industrial equipment controller that require high-speed processing of large data.

Also, the incorporated motor control circuit makes this microcomputer suitable for control of equipment that requires motor control.

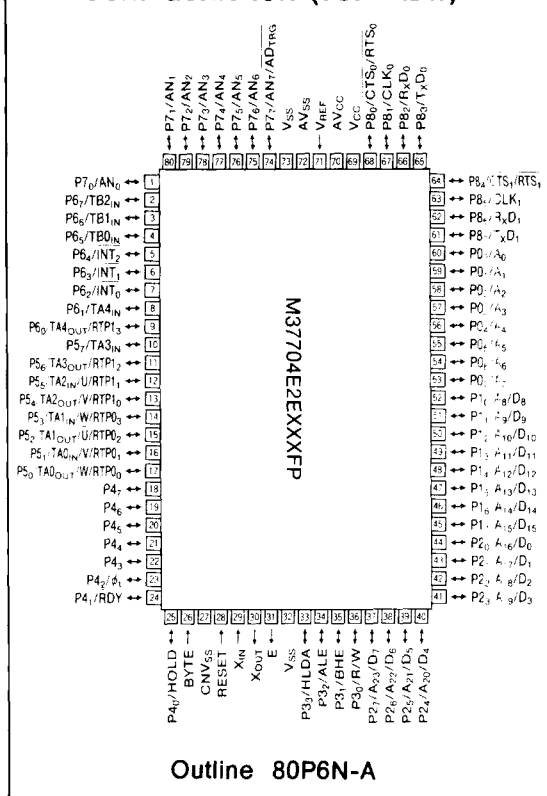
Since general purpose PROM writers can be used for the built-in PROM, this chip is suitable for small quantity production runs.

The M37704E2EXXFP is the wide operating temperature range version of the M37704E2AXXFP.

DISTINCTIVE FEATURES

- Number of basic instructions 103
- Memory size PROM 16K bytes
 RAM 512 bytes
- Instruction execution time
 The fastest instruction at 16 MHz frequency 250ns
- Single power supply 5V±5%
- Low power dissipation (at 16 MHz frequency)
 60mW (Typ.)
- Wide operating temperature range -40~85°C
- Interrupts 19 types 7 levels
- Multiple function 16-bit timer 5+3
 (Three-phase motor drive waveform or pulse motor drive waveform can be output.)
- UART (may also be synchronous) 2
- 8-bit A-D converter 8-channel inputs
- 12-bit watchdog timer
- Programmable input/output
 (ports P0, P1, P2, P3, P4, P5, P6, P7, P8) 68

PIN CONFIGURATION (TOP VIEW)



APPLICATION

Motor control devices such as inverter type air conditioners and general purpose inverters

Control devices for office equipment such as copiers, printers, typewriters, facsimiles, word processors, and personal computers

THE FUNCTIONS AND CHARACTERISTICS

The M37704E2EXXFP has the same functions and characteristics as the M37704E2AXXFP except for the following. Refer to the section on the M37704E2AXXFP.

Supply voltage	5V±5%
Operating temperature range	-40~85°C
Storage temperature	-65~150°C
A-D converter absolute accuracy	Max. ±3LSB

NOTE

Refer to "Chapter 5 PRECAUTIONS" when using this microcomputer.

