

# EF6805P2

## ADVANCE INFORMATION

### 8-BIT MICROCOMPUTER UNIT

The EF6805P2 Microcomputer Unit (MCU) is a member of the EF6805 Family of low-cost single-chip microcomputers. This 8-bit microcomputer contains a CPU, on-chip CLOCK, ROM, RAM, I/O, and TIMER. It is designed for the user who needs an economical microcomputer with the proven capabilities of the 6800-based instruction set. A comparison of the key features of several members of the 6805 Family is shown at the end of this data sheet. The following are some of the hardware and software highlights of the EF6805P2 MCU.

#### HARDWARE FEATURES

- 8-Bit Architecture
- 64 Bytes of RAM
- Memory Mapped I/O
- 1100 Bytes of User ROM
- 20 TTL/CMOS Compatible Bidirectional I/O Lines (8 Lines are LED Compatible)
- On-Chip Clock Generator
- Self-Check Mode
- Zero Crossing Detection
- Master Reset
- Complete Development System Support on DEVICE®
- 5 V Single Supply

#### SOFTWARE FEATURES

- Similar to 6800 Family
- Byte Efficient Instruction Set
- Easy to Program
- True Bit Manipulation
- Bit Test and Branch Instruction
- Versatile Interrupt Handling
- Versatile Index Register
- Powerful Indexed Addressing for Tables
- Full Set of Conditional Branches
- Memory Usable as Register/Flags
- Single Instruction Memory Examine/Change
- 10 Powerful Addressing Modes
- All Addressing Modes Apply to ROM, RAM, and I/O

#### USER SELECTABLE OPTIONS

- Internal 8-Bit Timer with Selectable Clock Source (External Timer Input or Internal Machine Clock)
- Timer Prescaler Option (7 Bits, 2<sup>7</sup>)
- 8 Bidirectional I/O Lines with TTL or TTL/CMOS Interface Option
- Crystal or Low-Cost Resistor Oscillator Option
- Low Voltage Inhibit Option
- Vectored Interrupts: Timer, Software, and External

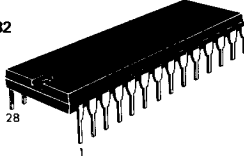
DEVICE® is THOMSON SEMICONDUCTEURS' development/emulation tool.

**HMOS**  
HIGH DENSITY  
N CHANNEL, SILICON-GATE  
DEPLETION LOAD

**8-BIT  
MICROCOMPUTER**


**CASES**

**CB-132**



**P SUFFIX  
PLASTIC PACKAGE**

**CB-520**



**FN SUFFIX  
PLCC 28**

