



February 1999

8 - Bit Micro-controller

with 24 KB flash embedded

Product List

- MSU2956C16, 16 MHz 24 KB internal memory MCU
- MSU2956C25, 25 MHz 24 KB internal memory MCU
- MSU2956C40, 40 MHz 24 KB internal memory MCU

Description

The MVI MSU2956 series product is an 8 - bit single chip microcontroller with 24 KB flash embedded. It provides hardware features and a powerful instruction set, necessary to make it a versatile and cost effective controller for those applications demand up to 32 I/O pins or need up to 24 K byte memory either for program or for data or mixed.

To program the flash block, a commercial programmer is capable to do it.

Ordering Information

MSU2956 i hhk

i: process identifier {C}.

hh: working clock in MHz {16, 25, 40}.

k: package type postfix {as below table}.

Features

- Working voltage : 4.5 V through 5.5 V
- Programming voltage : 5 V
- General 80C51 family compatible
- 12 clocks per machine cycle
- 24 K byte internal flash memory
- 256 byte data RAM
- Three 16 bit Timers/Counters
- Four 8-bit I/O ports
- Full duplex serial channel
- Bit operation instructions
- Page free jumps
- 8 - bit Unsigned Division
- 8 - bit Unsigned Multiply
- BCD arithmetic
- Direct Addressing
- Indirect Addressing
- Nested Interrupt
- Two priority level interrupt
- A serial I/O port
- Power save modes:
 - Idle mode and Power down mode
- Working at 16/25/40 MHz Clock

| Postfix | Package | Pin/Pad Configuration | Dimension | Logo Size at Top Marking |
|---------|----------|-----------------------|-----------|--------------------------|
| blank | dice | - | - | - |
| P | 40L PDIP | - | - | 5.0 x 4.2 mm |
| J | 44L PLCC | - | - | 4.5 x 3.8 mm |
| Q | 44L PQFP | - | - | 2.8 x 2.4 mm |
| U | 44L LQFP | - | - | 2.8 x 2.4 mm |