



March 1999

8 - Bit Micro-controller

with 32 KB flash embedded

Product List

MSU2959C16, 16 MHz 32 KB internal memory MCU, on-line down-loadable
MSU2959C25, 25 MHz 32 KB internal memory MCU, on-line down-loadable
MSU2959C40, 40 MHz 32 KB internal memory MCU, on-line down-loadable

Description

The MVI MSU2959 series product is an 8 - bit single chip microcontroller with 32 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 32 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

MSU2959ihhk

i: process identifier {C}.
hh: working clock in MHz {16, 25, 40}.
k: package type postfix {as below table}.

Table with 5 columns: Postfix, Package, Pin/Pad Configuration, Dimension, Logo Size at Top Marking. Rows include blank, P (40L PDIP), J (44L PLCC), Q (44L PQFP), and U (44L LQFP).

Features

- Working voltage : 4.5 V through 5.5 V
Programming voltage : 5 V
General 80C51 family compatible
12 clocks per machine cycle
32 K byte internal flash memory (on-line down-loadable)
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