March 1999

Product List

8 - Bit Micro-controller

with 32 KB flash embedded

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}.

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 arithmatic
■ 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

Specifications subject to change without notice, contact your sales representatives for the most recent information.