February 1999

8 - Bit Micro-controller

with 16 KB flash embedded

Product List

MSU2954C16, 16 MHz 16 KB internal memory MCU
MSU2954C25, 25 MHz 16 KB internal memory MCU
MSU2954C40, 40 MHz 16 KB internal memory MCU

Description

The MVI MSU2954 series product is an 8 - bit single chip microcontroller with 16 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 16 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

MSU2954 i hhk

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

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

Features

- Working voltage : 4.5 V through 5.5 V
  Programming voltage : 5 V
- General 80C51 family compatible
- 12 clocks per machine cycle
- 16 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 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

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