March 1999

8 - Bit Micro-controller

with 16 KB flash embedded

Product List

MSU2955C16, 16 MHz 16 KB internal memory MCU, on-line down-loadable
MSU2955C25, 25 MHz 16 KB internal memory MCU, on-line down-loadable
MSU2955C40, 40 MHz 16 KB internal memory MCU, on-line down-loadable

Description

The MVI MSU2955 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

MSU2955 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
  (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