

## 8-bit single chip microcontroller

### ●RAMICS-8

Microcomputer for easy-to-use, high speed controller

#### Features

- Intermemory instructions (transfer, operation and bit manipulation) which best make use of memory mapped I/O's.  
All RAMs and I/O's can be used as accumulator for effective use of ROM and easier programming.
- Pipeline and bus division for short instruction time  
Fast interrupt response and short instruction, best suitable for real time control applications.

### ●RAMICS-8

Series	BU38101	BU38701/BU38703
ROM	2048 × 8	24576 × 8/16384 × 8
RAM	96 × 8	512 × 8
Supply voltage	5V	5V
Execution time	0.33 μSec(#1)/0.25 μSec(#2)	0.33 μSec(#1)/0.25 μSec(#2)
External interrupt	4(programmable edge selection)	2
Internal interrupt	1(timer interrupt)	13 ( Free-running counter capture, timer interrupt, SIO interrupt, etc. )
Timer, counter	16bit × 1 Free-run/module	19bit × 1 Free-running timer (capture × 4) 8bit × 2 (internal interval timer)
Inputs	4	A/D input can be used as parallel input by mask option
Output	—	6
I/O	16	32
SIO	software SIO	8bit × 1
High current outputs	4	—
A/D input	—	8ch × 8bit
D/A output	—	PWM 12bit × 2
LED driver	High current output for direct drive	
Standby	HALT/STOP	HALT/STOP
Package	QFP32	QFP80
Development support tools	Assembler/in-circuit emulator	
MTP microcomputer	BU39101	BU39703
Debug board	EV38101	EV38701
Features	Real time control with pulses	speed and phase control of 2 motors. Incorporating high performance OP amp.

Notes : 1.Execution time-clock freq. at #1=6MHz  
#2=8MHz

2.For information on development tools (in-circuit emulator, etc.), call.