

Microcontrollers

4-bit single chip microcontroller

● **S.RAMICS** Compact microcomputer featuring excellent cost performance

Features

- High cost performance
I/O blocks (8-bit A/D, etc.) and other components (OSC capacitor, etc.) can be effectively built in to reduce the cost of the set.
- Available in selected package
DIP, SOP, QFP, etc.-select the best suitable for the mounting configuration.

● S.RAMICS (1)

Series	BU2458/BU2459/BU2460 (BU2418/BU2419/BU2422)	BU3458/BU3459/BU3460	BU2461/BU2462 (BU2430/BU2431)	BU3461/BU3462	BU2456	BU3456
ROM	1024 × 8	1024 × 8	1024 × 8	1024 × 8	1024 × 8	1024 × 8
RAM	32 × 4	32 × 4	32 × 4	32 × 4	32 × 4	32 × 4
Power supply	3V	5V	3V	5V	3V	5V
Run time	6.0 μ sec(#1)	1.5 μ sec(#3)	6.0 μ sec(#1)	1.5 μ sec(#3)	6.0 μ sec(#1)	1.5 μ sec(#3)
Inputs	4	4	4	4	4	4
Outputs	8	8	8	8	8	8
I/O's	4	4	2	2	4	4
High current output	1(8mA)	1(8mA)	1(8mA)	1(8mA)	1(8mA)	1(8mA)
Generator	Ceramic resonator	Ceramic resonator	Ceramic resonator	Ceramic resonator	Ceramic resonator	Ceramic resonator
Standby	○(STOP)					
Package	SOP22/DIP22/SDIP22	SOP22/DIP22/SDIP22	SOP20/DIP20	SOP20/DIP20	SSOP24	SSOP24
Development support tools	RDS-BU2					
Evaluation board	EV2418B					
Features	Internal remote control carrier generator		Internal OSC capacitor for ceramic generator			

● S.RAMICS (2)

Series	BU2463/BU2464/BU2465 (BU2403/BU2404/BU2402)	BU3463/BU3464/BU3465	BU2466 (BU2428)	BU3466	☆BU3434	BU3437/BU3447 (BU2421/BU2425)
ROM	640 × 8	640 × 8	640 × 8	640 × 8	2048 × 8	1024 × 8
RAM	16 × 4	16 × 4	16 × 4	16 × 4	96 × 4	64 × 4
Power supply	3V	5V	3V	5V	5V	5V
Run time	6.0 μ sec(#1)	1.5 μ sec(#3)	6.0 μ sec(#1)	1.5 μ sec(#3)	1.5 μ sec(#3)	1.5 μ sec(#3)
Timer counter						8bit × 1
Inputs	4	4	4	4	4	4
Outputs	8	8	6	6	4	1
I/O's					4	4
Analog inputs					COMP × 4	AD(8bit × 2)
High current output	1(8mA)	1(8mA)	1(8mA)	1(8mA)	4(10mA)	8(15mA)
Generator	Ceramic resonator	Ceramic resonator	Ceramic resonator	Ceramic resonator	Ceramic resonator/CR	Ceramic resonator/CR
Standby	○(STOP)					
Package	SOP18/DIP18/SDIP18	SOP18/DIP18/SDIP18	SOP16	SOP16	SOP24	SDIP32/QFP32
Development support tools	RDS-BU2					
MTP microcomputer					☆BU23534	
Evaluation board	EV2403C				☆EV3434	EV2421B
Features	Internal remote control carrier generator Internal OSC capacitor for ceramic generator				Internal capacitor for ceramic OSC	Internal LED controller/driver (8seg × 3com) Buzzer driver out put

● S.RAMICS (3)

Series	BU2405/BU2406/BU2407	BU3405/BU3406/BU3407	BU2408/BU2409	BU3408/BU3409	BU3411/BU3417
ROM	512 × 8	512 × 8	512 × 8	512 × 8	1024 × 8
RAM	16 × 4	16 × 4	16 × 4	16 × 4	64 × 4
Power supply	3V	5V	3V	5V	5V
Run time	6.0 μ Sec(#1)	1.5 μ Sec(#3)	6.0 μ Sec(#1)	1.5 μ Sec(#3)	1.5 μ Sec(#3)
Inputs			4	4	6
Outputs	2	2	7	7	17
Inputs/outputs	8	8	1	1	
Generator	Ceramic resonator/CR	Ceramic resonator/CR	Ceramic resonator/CR	Ceramic resonator/CR	Ceramic resonator/CR
Standby	○(STOP)				
Package	DIP16/SOP18/ZIP18	DIP16/SOP18/ZIP18	SOP18/DIP18	SOP18/DIP18	SDIP30/QFP32
Development support tool	RDSBU2				
Evaluation board	EV2405B		EV2408B		EV2400B

Notes : 1. ☆: Under development

2. Run time when clock is, #1=1MHZ, #2=2MHZ, #3=4MHZ

3. For development support tools (RD2-BU2 evaluation chip and board, etc.), call.

4. For optionals (pull up, pull down, etc.), call.