

High Performance and Ultra Low Power

# 16bit Ultra-Low-Power Microcontrollers

ML620500 Series



## Features

- Halt current is only 0.45μA. Operating current is less than 250μA / MHz
- 16MHz (Max.) operating frequency and built-in multiplication/division co-processor improve data processing performance
- A rich array of peripherals and wide range of operating conditions ensure compatibility with a variety of application requirements
- All models include flash memory with self-programming functionality

## Applications

- Battery-powered devices
- Home appliances
- Industrial equipment such as control panels

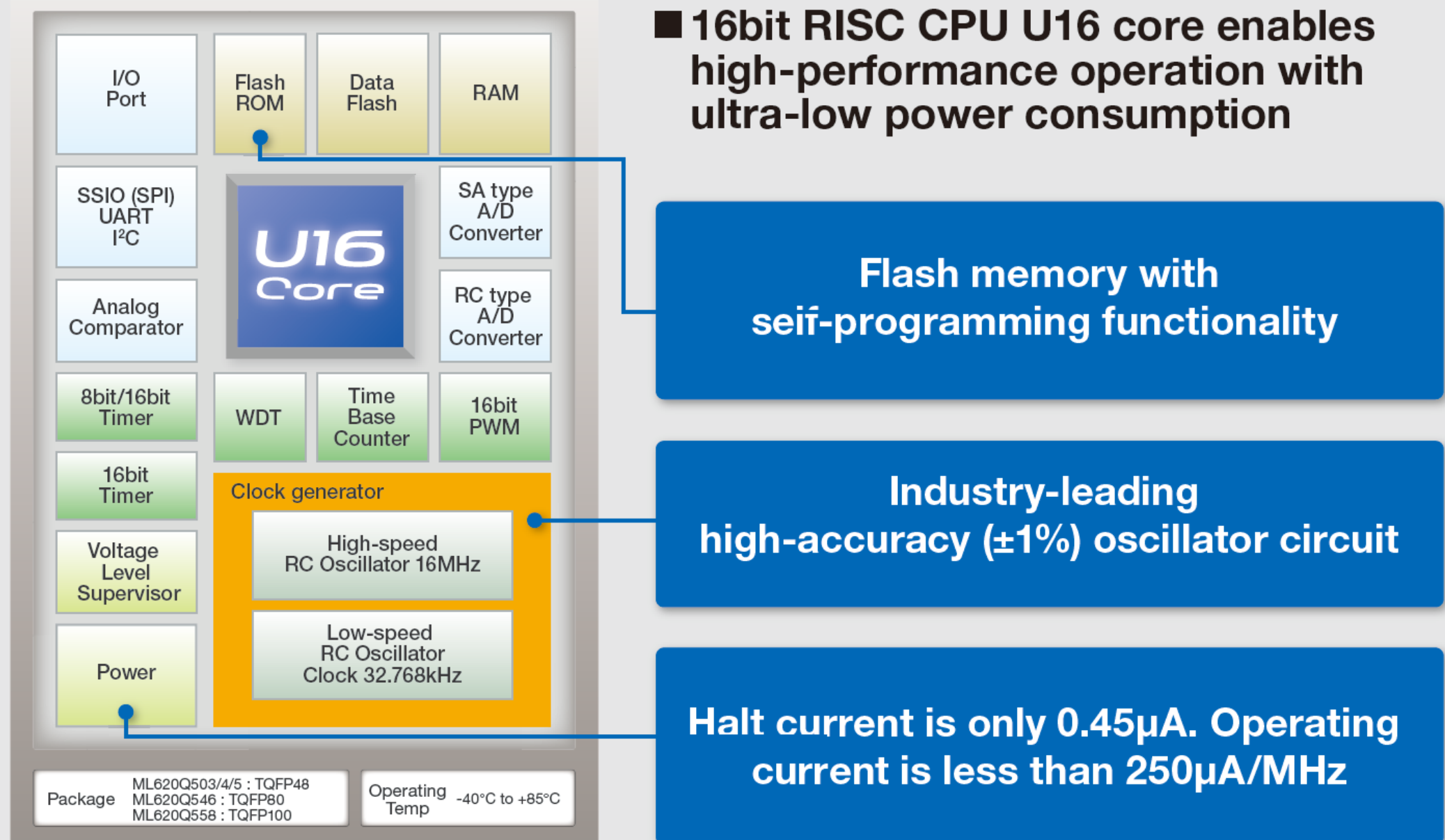
## Lineup

Suitable for a wide range of applications

ML620500 Series

ROM(Byte)	pins	16pin	32pin	48pin	64pin	80pin	100pin	128pin
256k				ML620Q508	ML620Q538	Thermostats	ML620Q558	
128k		Home Appliances		ML620Q506		ML620Q546	Control Panels	
64k				ML620Q504	Electronic Sales Tags			Electronic Meters
32k				ML620Q503		Data Loggers / Personal Health Care Devices		

## Block Diagram



## Specifications

Part No.	ML620Q503	ML620Q504	ML620Q506
Flash ROM	32KB	64KB	128KB
RAM	2KB	6KB	12KB
Peripheral	I <sup>2</sup> C (Master) / SSIO (SPI) / UART / 8bit or 16bit Timer / 16bit PWM / WDT / TBC / 12bit SA-ADC / RC-ADC / Comparator e.t.c		
Form Factor	TQFP48		

Part No.	ML620Q546	ML620Q558
Flash ROM	128KB	256KB
RAM	10KB	20KB
Peripheral	I <sup>2</sup> C (Master) / SSIO (SPI) / UART / 8bit or 16bit Timer / 16bit PWM / WDT / TBC / RTC / 10bit SA-ADC / RC-ADC / Comparator, 3-Phase Motor e.t.c	
Form Factor	TQFP80	TQFP100