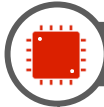


NuMicro[®] 8051 MG51 32/16 KB Series

A Leading MCU Platform Provider

MG51 Features



System

- 1T 8051 core
- Up to 24 MHz high-speed internal oscillator (HIRC).
- Up to 32 KB Flash
- 128-bytes security protection memory SPROM
- 1KB SRAM
- EFT 4.4 kV, ESD HBM 7 kV



Peripherals

- 2 sets UART
- 1 set I2C
- 1 set SPI
- 4 sets 16-bit Timer
- 6 channels 16-bit PWM with deadzone
- Watchdog timer
- Wakeup timer



Peripherals

- 8 channels 12-bit ADC (500ksps)
- Built-in band-gap reference voltage with precisely measured value, internally connected to an ADC input to monitor operating supply voltage (VDD) with $\pm 1\%$ precision within all temperatures.

THE CONSISTENCY

**Pin to Pin
Compatible**

TSSOP20 / QFN20

**Code to Code
Compatible**

**NO code recompilation
required**

**All Nuoton Tools
Are Supporting**

**Update the latest
version**

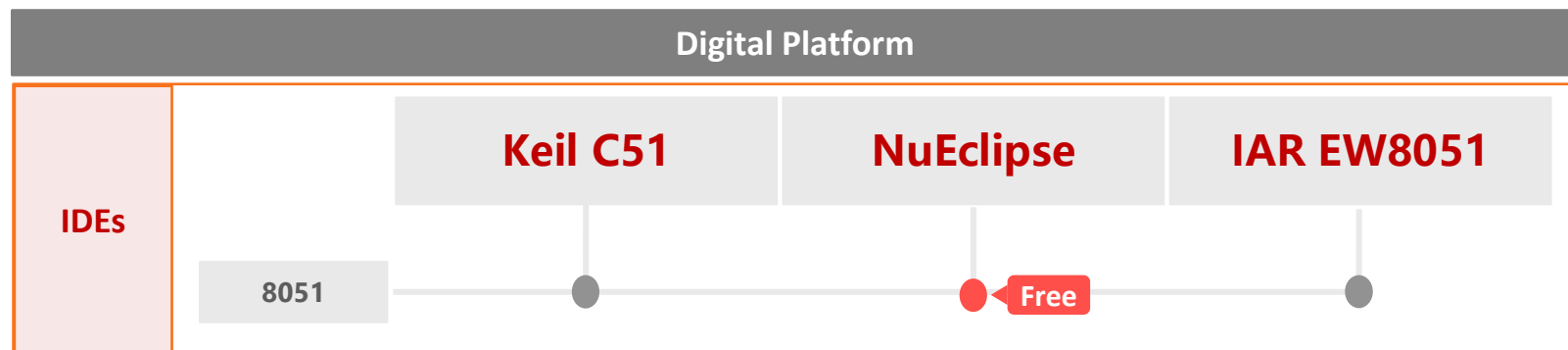
**Fully compatible :
Testing the chip has revealed no discernible distinctions**

REPLACEMENT AND UPGRADE

MG51	MS51	Package
MG51XB9AE	MS51XB9AE	QFN20 ^[*]
MG51XC9AE		QFN20 ^[*]
MG51FB9AE	MS51FB9AE	TSSOP20
MG51FC9AE		TSSOP20
	MS51XB9BE	QFN20 ^[*]

NuLink product series to debug directly on the system

IDEs & BSP



HW	Hardware: Nu-Link series debug directly on the product or Application System
----	--

SW	Software Package : MG51 BSP https://github.com/OpenNuvoton/MG51
----	--

Q & A

<https://www.nuvoton.com/support/technical-support/form/>

Contact us if any question