

# N79E715 Sample Code Directory

Directory Introduction for 8-bit 8051 MCU Family

## Directory Information

<b>Document</b>	Revision history.
<b>Sample Code</b>	Sample code of N79E715.

*The information described in this document is the exclusive intellectual property of Nuvoton Technology Corporation and shall not be reproduced without permission from Nuvoton.*

*Nuvoton is providing this document only for reference purposes of NuMicro microcontroller based system design. Nuvoton assumes no responsibility for errors or omissions.*

*All data and specifications are subject to change without notice.*

For additional information or questions, please contact: Nuvoton Technology Corporation.

[www.nuvoton.com](http://www.nuvoton.com)

## 1 Document Information

**N79E715 Sample Code  
Revision History.pdf**

This document shows the revision history of N79E715 sample code.

## 2 Sample Code Information

Sample Code	Demonstrate N79E715 function in Keil C51.
Common	Common files for Tiny Board sample code.
Include	Header file of N79E715
Startup	Startup file of N79E715

### 3 \Sample\_Code

<b>ADC</b>	Demonstrate ADC function and show the conversion result to PC.
<b>BOD_Interrupt</b>	Demonstrate BOD interrupt.
<b>GPIO</b>	Demonstrate GPIO toggling function.
<b>I2C</b>	Demonstrate I2C Master-Slave mode function.
<b>Interrupt</b>	Demonstrate wake up function from idle mode through 14 interrupt sources.
<b>ISP_APproData</b>	Demonstrate ISP function through APROM programming Data Flash.
<b>ISP_LDproAP</b>	Demonstrate ISP function through LDROM programming APROM.
<b>ISP_LDproData</b>	Demonstrate ISP function through LDROM programming Data Flash.
<b>ISP_SHBDA</b>	Dynamically adjust SHBDA to decide APROM/Data Flash size and program Data Flash by ISP.
<b>KBI</b>	Demonstrate KBI function.
<b>Power_Down_Wake_up</b>	Demonstrate wake up function from power down mode through interrupt sources.
<b>PWM</b>	Demonstrate PWM function.
<b>SPI_Interrupt</b>	Demonstrate SPI Master-Slave mode function by using interrupt service routine.
<b>SPI_Polling</b>	Demonstrate SPI Master-Slave mode function by using polling flag.
<b>Timer</b>	Demonstrate Timer0 mode 1 (16-bit timer) function.
<b>Timer2</b>	Demonstrate Timer2 auto-reload function.
<b>Timer2_Capture</b>	Demonstrate Timer2 capture function.
<b>UART</b>	Demonstrate UART function.

**WDT**

Demonstrate Watch Dog function.

## Appendix Limitations of KEIL™ C51 Evaluation Edition

KEIL™ development tools without a current product license run as an Evaluation edition and have the following restrictions:

- The 8051 compiler, assembler, linker, and debugger are limited to 2 Kbytes of object code. Source code may be of any size.
- Programs that generate more than 2 Kbytes of object code will not compile, assemble, or link.
- The debugger supports programs that are 2 Kbytes or smaller.
- The startup code generated includes LJMPs. Code generated cannot be used in single-chip devices that support 2 Kbytes or less of program space.
- Programs start at offset 0x0800. Programs generated with the evaluation software may not be programmed into single-chip devices with less than 2 Kbytes of on-chip ROM.
- No hardware support for multiple DPTR registers is provided.
- No support for floating-point arithmetic and no support for user libraries are provided.
- No support for in-line assembly using #pragma ASM.
- The following components which are present in the PK51 Full Version are not included in the Evaluation Version: Linker for Code Banking, Library Manager, and RTX51 Tiny Real-time Operating System.

### Important Notice

**Nuvoton Products are neither intended nor warranted for usage in systems or equipment, any malfunction or failure of which may cause loss of human life, bodily injury or severe property damage. Such applications are deemed, "Insecure Usage".**

**Insecure usage includes, but is not limited to: equipment for surgical implementation, atomic energy control instruments, airplane or spaceship instruments, the control or operation of dynamic, brake or safety systems designed for vehicular use, traffic signal instruments, all types of safety devices, and other applications intended to support or sustain life.**

**All Insecure Usage shall be made at customer's risk, and in the event that third parties lay claims to Nuvoton as a result of customer's Insecure Usage, customer shall indemnify the damages and liabilities thus incurred by Nuvoton.**

---

Please note that all data and specifications are subject to change without notice.  
All the trademarks of products and companies mentioned in this datasheet belong to their respective owners.