



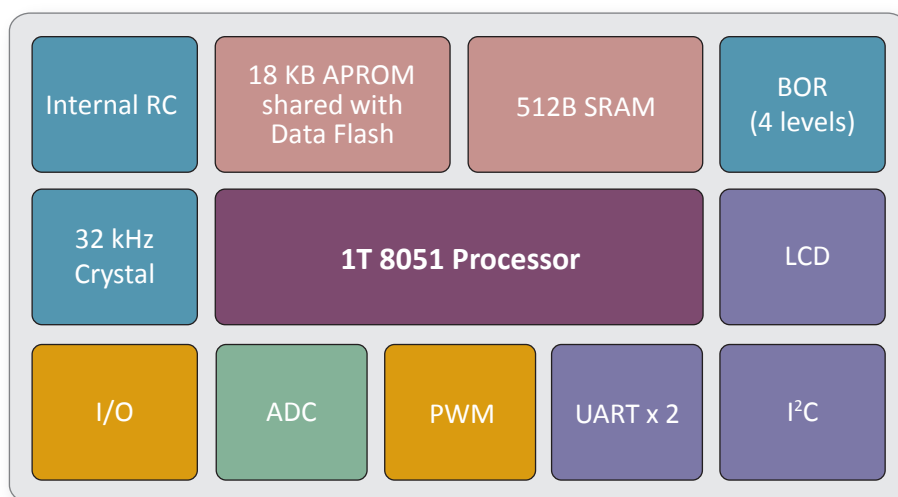
Nuvoton 1T-8051 MCU

# N76E616 Series: Built-in LCD Driver & 2 Sets of UART

Creating the Perfect Small HA LCD Applications

## » Applications

- ◆ Thermostat
- ◆ Rice Cooker
- ◆ Coffee Machine
- ◆ Motorcycle Dashboard



## » Selection Guide

Part No.	Flash (Kbytes)	SRAM (bytes)	Data Flash (Kbytes)	ISP ROM (Kbytes)	I/O	Timer (16-bit)	Connectivity			Comp.	PWM (8-bit)	ADC (10-bit)	INT	ICP ISP IAP	Special Function	Package
							UART	SPI	I <sup>2</sup> C							
N76E616 Series																
N76E616AL48	18	512	Configurable	✓	up to 45	3	2	-	1	-	8/4 CHs	8	9	✓	1T 8051, 11 MHz internal RC, KBI, BOR	LQFP48

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## ❖ Features

### ◆ Core

- 1T 8051 processor
- External Crystal frequency up to 16 MHz, internal RC frequency up to 11.0592 MHz
- Operating voltage: 2.4V ~ 5.5V
- Temperature range: -40°C ~ +105°C

### ◆ Memory

- 18 Kbytes flash memory for program memory (APROM)
- 512B bytes embedded SRAM
- Configurable size data flash (shared with APROM)
- ISP (In-System Programming)
- ICP (In-Circuit Programming)
- IAP (In-Application Programming)

### ◆ ADC

- Up to 8 channels
- 10-bit resolution
- Up to 300 kSPS

### ◆ PWM

- Up to 8 channels (four sets of complementary output)

### ◆ LCD Driver

- 4 COM x 32 SEG or 6 COM x 30 SEG

### ◆ Connectivity

- Two sets of UART interface
- One I<sup>2</sup>C interface (up to 400 kHz)

### ◆ Clock Control

- Up to 16 MHz external crystal oscillator
- Built-in 11.0592 ±5% MHz high speed oscillator at -40°C ~ +105°C
- External 32 kHz crystal oscillator
- Built-in 10 KHz internal RC oscillator