



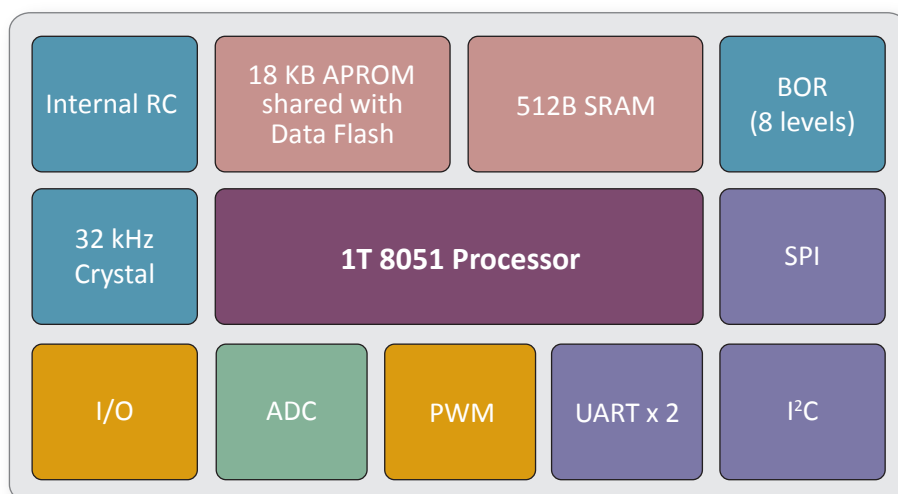
Nuvoton 1T-8051 MCU

# N76E885 Series : 1T-8051 with Two UARTs

Creating a New Vision for Small HA Applications

## Applications

- ◆ Power Tools
- ◆ Fan Control
- ◆ Stage Lighting Control



## Selection Guide

Part No.	Flash (Kbytes)	SRAM (bytes)	Data Flash (Kbytes)	ISP ROM (Kbytes)	I/O	Timer (16-bit)	Connectivity			Comp.	PWM (12-bit)	ADC (10-bit)	INT	ICP ISP IAP	Special Function	Package
							UART	SPI	I <sup>2</sup> C							
N76E885 Series																
N76E885AT28	18	512	Configurable	✓	up to 26	3	2	1	1	-	8	10	2	✓	1T 8051, 22 MHz internal RC, KBI, BOR	TSSOP28
N76E885AT20	18	512	Configurable	✓	up to 18	3	2	1	1	-	8	10	2	✓	1T 8051, 22 MHz internal RC, KBI, BOR	TSSOP20

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## ❖ Features

### ◆ Core

- 1T 8051 processor
- Max frequency of 25 MHz
- Operating voltage: 2.4V~5.5V
- Temperature range: -40°C ~ +105°C

### ◆ Memory

- 18 Kbytes Flash memory for program memory (APROM)
- 512 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 10 channels
- 10-bit resolution
- Up to 300 KSPS

### ◆ PWM/Capture

- Up to 8 channels with dead-time insert
- 12-bit resolution
- Provides trigger ADC

### ◆ Connectivity

- Two sets of UARTs (up to 781.25 kHz)
- One I<sup>2</sup>C Interface (up to 400 kHz)
- One SPI (up to 6.25 MHz)

### ◆ Clock Control

- Up to 25 MHz crystal oscillator
- 22.1184 MHz internal RC oscillator (variation < ±2% at -40°C ~ +105°C)
- 32 kHz crystal oscillator