

## Product Overview

### NCD98011: 12-Bit Low Power SAR ADC Signed Output

For complete documentation, see the data sheet.

The NCD98011 provides an extremely low power solution for analog to digital conversion applications using a capacitor-based successive-approximation architecture. Optimized for low power and speed, the NCD98011 can achieve a sample rate of 2 MSPS while consuming less than 1 mW of power. The device also features a large input voltage range ( $\pm VCC$  Vppd) for various applications and a wide digital supply voltage range of 1.8 V to 3.3 V for direct interfacing with many controllers. The SPI-compatible interface provides a straight-forward data-acquisition method.

#### Features

- Nanowatt Power Consumption, 2 MSPS Sampling rate, 12-bit resolution

#### Benefits

- Enable analog to digital conversion for ultra low-power application, allows for drop in replacement into existing systems, high resolution matches the needs of the targeted applications.

#### Applications

- Low-Power Data Acquisition, Battery-powered Equipment, Level Sensors, Ultrasonic Flow Meters, Motor Controls, Wearable Fitness, Portable Medical Equipment, Glucose Meters

#### End Products

- Portable Medical Equipment, Wearable Fitness, Glucose Meters

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	Resolution (bits)	Control Interface	Package Type
NCD98011XMXTAG	0.6	Pb-free Halide free	NEW	1		SPI	X2QFN8, 1.5x1.5, 0.5P

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 6/11/2020