

## MM4115A16

2023/12/06

## Outline

The MM4115A16 is high-precision, low-power, 16-bit delta sigma analog-to-digital converter ICs with I2C compatible interface. MM4115A16 can measure two differential inputs or four singleended inputs by the internal input multiplexer. MM4115A16 has a build-in PGA(programmable gain amplifier), and are well suited for sensor measurement applications because having input voltage range switching function. This ADC operates in either continuous-conversion mode or single-shot conversion mode.

## Features

- ① Ultra Small SQFN package: 2.0(W) × 1.5(D) × 0.4(H) mm
- ② 16-Bit Resolution
- ③ Programmable Data Rate : 8 to 860 SPS
- ④ Single-Cycle Settling
- ⑤ Four Single-Ended or Two Differential Inputs
- ⑥ Low Current Consumption: 150 uA (Continuous-Conv. Mode)
- ⑦ Internal Low-Drift Reference Voltage Source and Internal Oscillator
- ⑧ Internal Programmable Comparator

## Specifications

Specifications	Number of input channels [ch]	Resolution [bit]	Sampling Rate [ksps]	Integral nonlinearity error [LSB]	Communication I/F	Package
MM4115A16RBE	4	16	0.86	-3.0~3.0	I2C	SQFN-10A

Specifications	Built-in function
MM4115A16RBE	MUX/PGA/Comparator