Developers

# ICU-10201

## High-Performance Ultrasonic Time-of-Flight Sensor

TDK World

Sustainability

### **OVERVIEW**

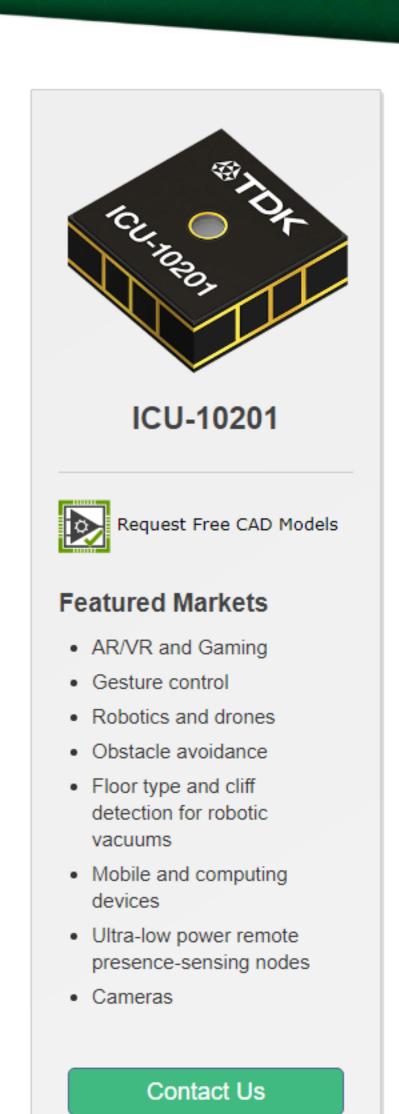
Solutions

Applications

is ideal for measuring the range of objects between 10cm and 1.2m, and offers a customizable field-of-view of up to 180°. It has a sample rate of 250 samples per second at 0.3 meters, and 130 samples per second at 1 meter. It comes in a  $3.5 \times 3.5 \times 1.26$  mm LGA package, and includes an integrated DSP for signal processing.

The ICU-10201 is a high-performance ultrasonic Time-of-Flight sensor that

The ICU-10201 extends battery life via its ultra-low power consumption  $(17\mu A - 320\mu A)$  depending on the number of samples per second), and is highly flexible thanks to a large amount of embedded program and data memory.



ICU-10201 Features & Benefits

Integrated DSP for signal processing

Operating Range: 10cm to 1.2m

- Customizable field of view up to 180°
- Ideal for short-range applications that require low range

Operation

detection Ultra-low power consumption extends battery life

Package Size

(mm)

High flexibility – large embedded program/data memory

firmware freeing up system micro-controller resources

Integrated high performances DSP runs ultrasonic

- Works in any lighting condition and can detect
- transparent surfaces Pitch-catch ranging between wireless nodes

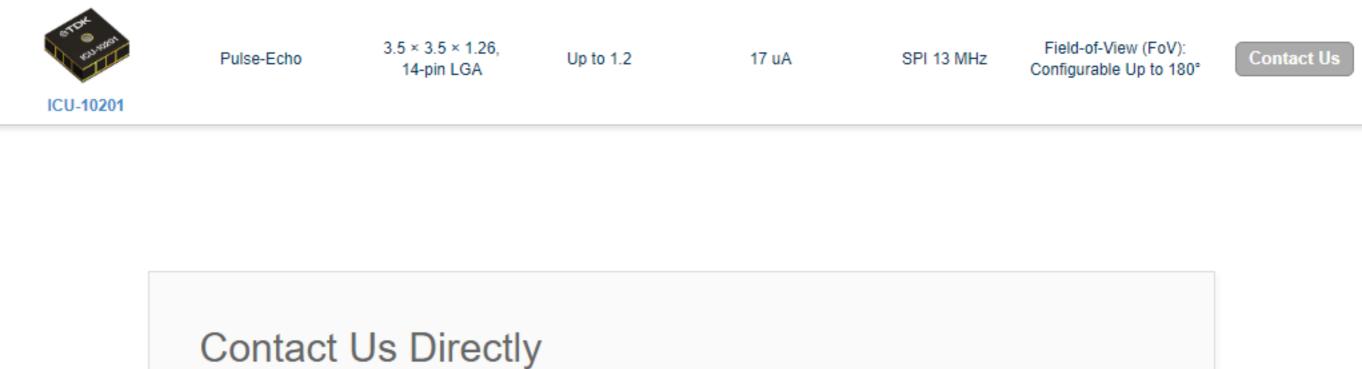
Interface \$

Comments

Purchase

## **Product Details**

Product



Range

Current Consumption

(1sample/s, 1m

Range)

