



SmartSonic™

PRIMARY APPLICATIONS



Presence Detection

Ultra-low power and low latency Ultrasonic ToF sensors detect presence and minor motion in any lighting condition



Smart Lock

Always-on battery-powered smart locks utilize ultra-low power Ultrasonic ToF sensors to enable a rich variety of features



Liquid Level

Contactless, low-power ultrasonic ToF sensors enable remote liquid level measurements and touchless water dispensing



Robotics/RVC

Ultrasonic ToF sensors enable cliff detection, material composition identification, and obstacle avoidance

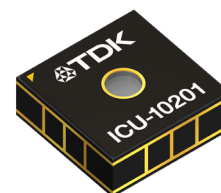
FEATURED PRODUCTS

ICU-20201



High performance ultrasonic Time-of-Flight Range Sensor, ideal for measuring the range of objects between 20 cm and 5m; offers a customizable field-of-view of up to 180°

ICU-10201



High performance ultrasonic Time-of-Flight Range Sensor, ideal for measuring the range of objects between 3 cm and 1.2m; offers a customizable field-of-view of up to 180°

PRODUCT CATEGORIES

ICU-20201

High performance Long Range Sensor

High-performance ultrasonic Time-of-Flight sensor that is ideal for measuring the range of objects between 20 cm and 5m.

High flexibility thanks to a large amount of embedded program and data memory

Works in any lighting condition from full sunlight to complete darkness, providing millimeter-accurate range measurements

CH101

High performance Short Range Sensor

High-performance ultrasonic Time-of-Flight sensor that is ideal for measuring the range of objects between 3cm and 1.2m.

High flexibility thanks to a large amount of embedded program and data memory

Works in any lighting condition from full sunlight to complete darkness, providing millimeter-accurate range measurements at very short distances

CH201

Long Range Sensor

Accurate range measurements to targets at distances up to 5m.

Works in any lighting condition from full sunlight to complete darkness, providing millimeter-accurate range measurements independent of the target's color & optical transparency.

Its wide Field-of-View can be customized and enables simultaneous range measurements to multiple objects.

CH101

Short Range Sensor

Accurate range measurements to targets at distances up to 1.2m.

Works in any lighting condition and provides millimeter-accurate range measurements independent of the target's color and optical transparency

PRODUCT DETAILS

Product Number	Package Size (mm)	Range (m)	Current Consumption (1 sample/s, 1m range)	Interface	Field of View (FoV) (degrees)
ICU-20201	3.5 × 3.5 × 1.26	Up to 5	26 µA	SPI 13 MHz	Configurable Up to 180°
ICU-10201	3.5 × 3.5 × 1.26	Up to 1.2	17 µA	SPI 13 MHz	Configurable Up to 180°
CH201	3.5 × 3.5 × 1.26	Up to 5	13.5 µA	I ² C	Configurable Up to 180°
CH101	3.5 × 3.5 × 1.26	Up to 1.2	15 µA	I ² C	Configurable Up to 180°



Scan Here for additional materials and information.