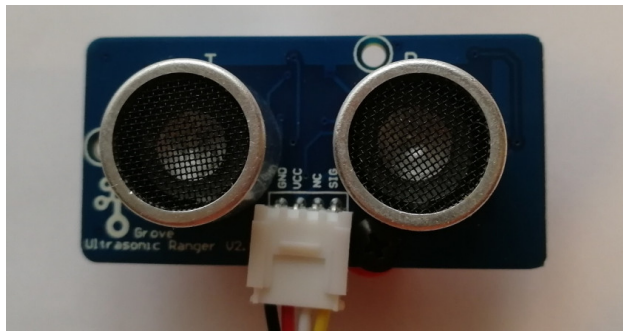


Ultrasonic ranger



The **iTriangle - Ultrasonic ranger** is a non-contact distance measurement module that works at 40 KHz. When a pulse trigger signal with more than 10 μ s is provided through the signal pin, the module will issue 8 cycles of 40 kHz and detect the echo. The pulse width of the echo signal is proportional to the measured distance according to the formula: *distance = echo signal high time * Sound speed (340 m/s)/2*. The Ultrasonic Ranger's TRIG and ECHO signal share 1 SIG pin.

Do not hot plug the ultrasonic ranger, otherwise the sensor will be damaged. The measured area must be no less than 0.5 square meters and smooth.

Specifications

Parameter	Value/Range
Operating voltage	3.2~5.2 V
Operating current	8 mA
Ultrasonic frequency	40 kHz
Measuring range	2-350 cm
Resolution	1 cm
Output	PWM
Size	50 x 25 x 16 mm
Weight	13 g
Measurement angle	15°

Parameter	Value/Range
Working temperature	-10~60 °C
Trigger signal	10 uS TTL
Echo signal	TTL

Revision #8

vytvořené 3 roky nazpět uživatelem [Admin](#)

aktualizováno 3 roky nazpět uživatelem [Jiri Krulis](#)