

ULCR

Ultra low cost reader for 433MHz SAW sensor

The ULCR is basically a micro controller powered frequency measuring device. It is developed to stimulate passive wireless surface acoustic wave (SAW) sensors, and read out their resonance frequencies. These frequencies contain information about their physical parameters, such as temperature, pressure etc. With help of the ULCR, these frequencies can be converted to the related physical parameters.

typical applications:

- mechanical engineering
- food industry
- pharmacy industry
- white goods
- chemistry industry
- bakery



- 1 SMA connector for different antennas
- 2 5V power supply
- 3 micro usb for configuration and power supply
- 4 CAN or RS232 output

technical data	value
sensor	up to 4 x SAW sensor (resonator) 433MHz
antenna connector	SMA connector (50ohm)
interrogating frequency	ISM-Band: 433.05...434.79MHz (adjustable 430...440MHz)
transmission power	standard 10mW (adjustable up to 500mW)
operating temperature	-25 ... 70°C
frequency resolution	<100Hz
power supply	5V
current cumsumption	0.3A
dimension(LxHxW)	103x27.5x82mm (exclusive SMA connector)
interface	micro usb, CAN or RS232