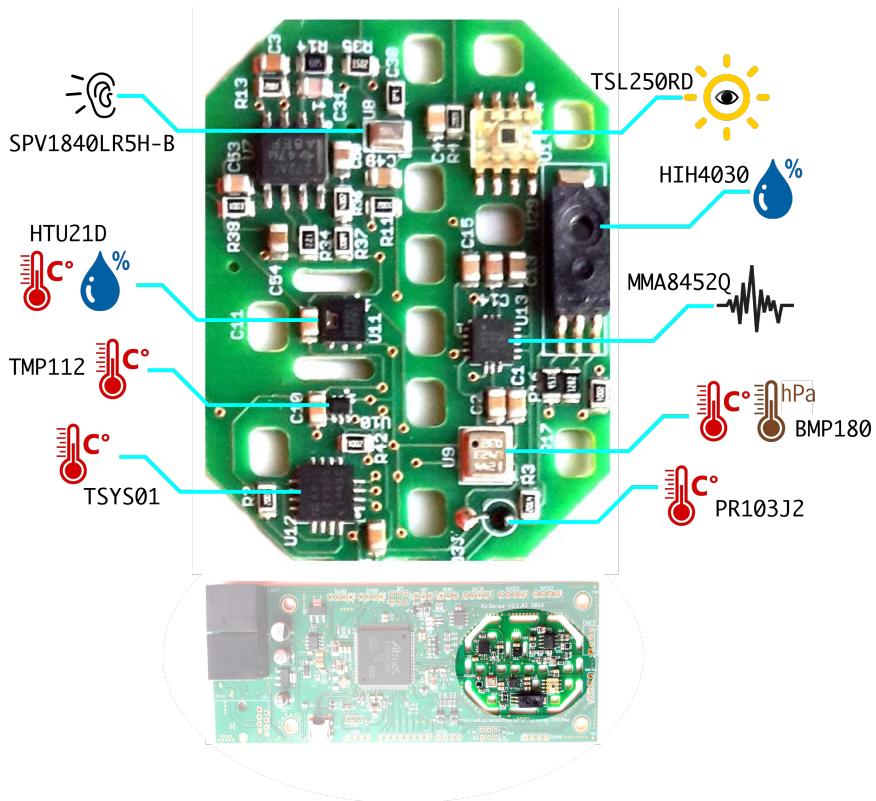


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Waggle Sensors

Airsense



Size: 55x145x15mm

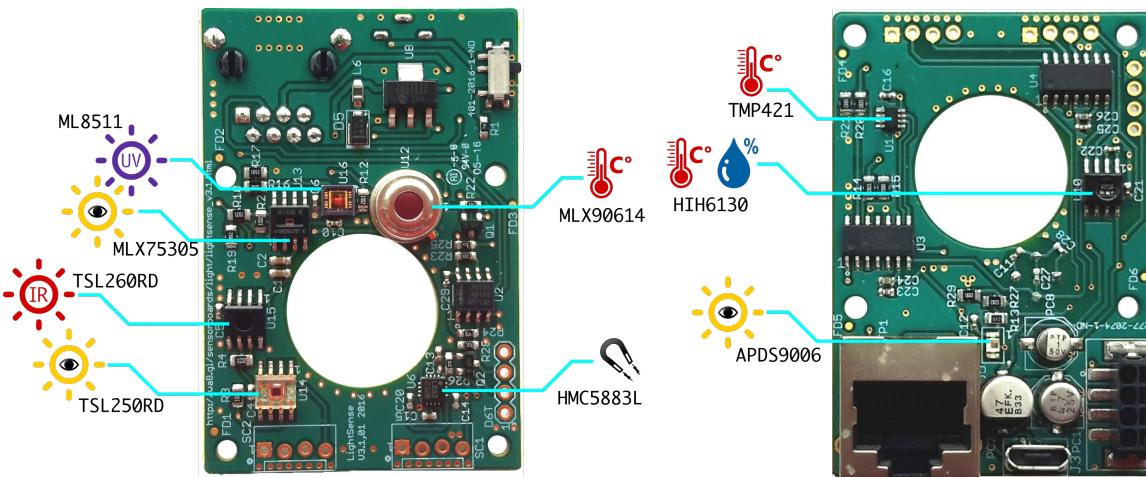
Interface: USB-Serial, I2C

CPU: Atmel SAM3X8E ARM Cortex-M3 CPU

Part Name	Measurement	Range	Accuracy	Datasheet
TMP112	Temperature	-40 to +125°C	±1°C	Datasheet
HTU21D	Temperature	-40 to +125°C	±1°C peak	Datasheet

	Relative Humidity	0 to 100 %RH	$\pm 2\%$ RH	
BMP180	Atmospheric Pressure	300 to 1100hPa	± 0.02 hPa	Datasheet
	Temperature	-40 to +85 °C	± 1.0 °C	
PR103J2	Temperature	-55 to +80 °C	± 0.05 °C	Datasheet
TSL251RD	Light Intensity, $\lambda_p = 640$ nm	0 to 124 $\mu\text{W}/\text{cm}^2$	16 $\mu\text{W}/\text{cm}^2$	Datasheet
MMA8452Q	3 axis acceleration	± 8 g	± 20 mg	Datasheet
SPV1840LR5H-B	Instantaneous Sound Sample	Acoustic Overload point 121 dB SPL	-38 dBV/Pa	Datasheet
TSYS01	Temperature	-40°C to +125 °C	0.5 °C	Datasheet

Lightsense



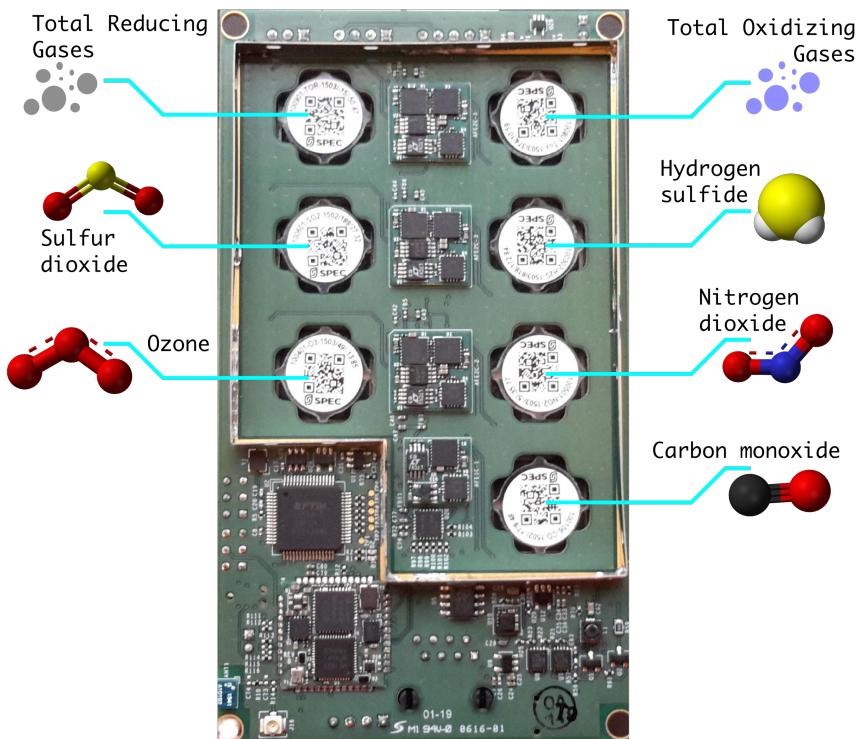
Size: 40x57x15mm

Interface: I2C

CPU: None.

Part Name	Measurement	Range	Accuracy	Datasheet
HMC5883L	3 axis magnetic field intensity	± 8 gauss	± 0.002 gauss	Datasheet
HIH6130	Temperature	-25 to +85°C	± 1.0 °C	Datasheet
	Relative Humidity	0 to 100 %RH	± 0.05 %RH	
APDS-9006-020	Light Intensity, $\lambda_p = 500$ nm	0 to 1000 LUX	± 0.68 %	Datasheet
TSL261RD	Light Intensity, $\lambda_p = 940$ nm	0 to 132 $\mu\text{W}/\text{cm}^2$	± 15 $\mu\text{W}/\text{cm}^2$	Datasheet
TSL251RD	Light Intensity, $\lambda_p = 640$ nm	0 to 124 $\mu\text{W}/\text{cm}^2$	± 16 $\mu\text{W}/\text{cm}^2$	Datasheet
MLX75305	Light Intensity, $\lambda_p = 700$ nm	0 to 160 $\mu\text{W}/\text{cm}^2$	± 15 $\mu\text{W}/\text{cm}^2$	Datasheet
ML8511	Light Intensity, $\lambda_p = 365$ nm	0 to 15mW/cm ²	± 1 %	Datasheet
TMP421	Temperature	-55 to +127°C	± 1.25 °C	Datasheet
D6T-44L-06	Temperature	0 to 50°C	± 1.5 °C	Datasheet
MLX90614	Temperature	-40 to +85 C	± 0.5 °C	Datasheet

Chemsense



Size: 65x130x15mm

Interface: USB-Serial, UART

CPU: Intel Microprocessor

Part Name	Measurement	Range	Accuracy	Datasheet
SHT25	Temperature	-40 to +125°C	±0.2°C	Datasheet
	Humidity	0 to 100%RH	±1.8%RH	
LPS25H	Temperature	-30 to +105°C	±2°C	Datasheet
	Atmospheric Pressure	260 to 1260 hPa	±0.2hPa	
Sulfur Dioxide	SO ₂ Concentration	0 to 20 ppm	±3% of reading	Datasheet
Hydrogen Sulfide	H ₂ S Concentration	0 to 50 ppm	±3% of reading	Datasheet
Ozone	O ₃ Concentration	0 to 20 ppm	±3% of reading	Datasheet
Nitrous Oxide	NO ₂ Concentration	0 to 20 ppm	±3% of reading	Datasheet
Carbon Monoxide	CO Concentration	0 to 1,000 ppm	±2% of reading	Datasheet
BMI160	3 axis acceleration	±16g	300µg/√Hz	Datasheet
	3 axis orientation	2000°/s	0.07°/s rms	
Total Reducing Gases	Reducing Gases Concentration	0 to 20 ppm	±3% of reading	...

Total Oxidizing Gases	Oxidizing Gases Concentration	0 to 20 ppm	±3% of reading	...
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OPC-N2



Size: 65x75x60mm

Interface: USB Storage, SPI

Part Name	Measurement	Range	Accuracy	Datasheet
OPC-N2	PM1 PM2.5 and PM10 in $\mu\text{g}/\text{m}^3$			Datasheet