

CHIPOX



Miniaturized pulse oximetry module

ChipOx offers cutting-edge pulse oximetry technology within a smallest amount of space. It also impresses with its low power consumption and is perfectly suitable for battery operated devices, mobile applications and multiparameter monitors. Besides SpO₂ and pulse, numerous additional parameters can be determined.

FEATURES

- Reliable and high-quality measurements
- Filtered infrared plethysmogram
- Raw infrared plethysmogram (in real time)
- Various measuring modes and sensor types
- Integrated warning and error message system

YOUR BENEFITS

- Customization on request
- Development kit available
- 20 years of expertise in cardiovascular technology
- Various sensors available as accessory



**BETTER HIGHTECH.
BETTER HEALTH.**

TECHNICAL INFORMATION

| | |
|-------------------------------------|--|
| SpO ₂ measurement range: | 45 % to 100 % |
| Pulse frequency measurement range: | 20 bpm to 300 bpm |
| Interface: | UART |
| Filtered infrared plethysmogram: | 0 – 2 ⁸ LSB (data rate: approx. 240 Hz) |
| Raw infrared plethysmogram: | 0 – 2 ²⁴ LSB (data rate: approx. 80 Hz) |
| Signal quality indicator: | 0 % to 100 % |
| Voltage supply: | 3.3 V ± 0.1 V |
| Input current: | 12 mA to 28 mA |
| Operating temperature: | -20 °C to +60 °C |
| Humidity level: | < 90 %, non-condensing |
| Air pressure level: | 750 hPa to 1100 hPa |
| Size of board: | 31 mm x 14 mm x 5 mm (LxWxH) |
| Weight: | 1.9 g |

APPLIED STANDARDS

EN 60601-1:2013
EN 80601-2-61:2017
RoHS / REACH

ON REQUEST

Sample rate of 500 Hz
Raw red and infrared plethysmogram
High dynamic measurement range
(e.g. low / high pulsation and absorption)

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ABOUT CORSCIENCE

Corscience GmbH & Co. KG is the one-stop shop and engineering specialist for medical technology. We develop and produce OEM modules and products which help people and save lives.