SCIENTISST SENSE Data Sheet

v2.0 (04032024)

ScientISST **CORE** is a all-in-one ready-to-use development board , ideal for prototyping with biosignals and to get a head start on your biomedical engineering projects.

Specifications

> Sampling Rate: up to 16kHz

> Analog Ports: 6 in (12-bit) + 2 in (24-bit)

> Digital Ports: 2 in (1-bit) + 2 out (1-bit) + 1 out (8-bit) + 1 I2C + 1 SPI

> Communication: Bluetooth, WiFi or serial-USB (according to firmware setup)

> Sensors: ECG, PCG, IRT, IRS, EMG

> Size: 6.3 x 6.3 x 1 cm

> Battery: rechargable 3.7V LiPo battery

> Consumption: ~46mA in acquisition

Features

> Snappable blocks

> Raw and milivolt data acquisition

> Simultaneous charging and acquisition

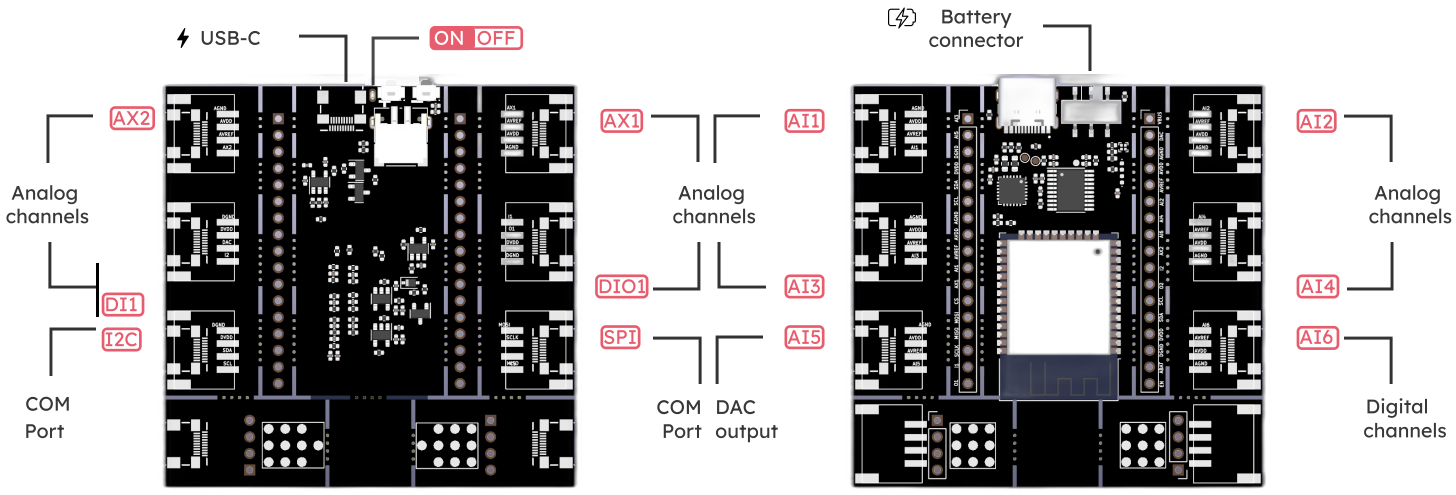
> JST battery connector

> Grove connectors for all digital and analog ports

> ON/OFF button

> Status LED indicators

Functional Blocks



How to get your data?

https://sense.scientisst.com

https://github.com/scientisst/scientisst-sense-api-python

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LED Indicators

	LED1	LED2
Idle	○	
Acquisition	○○	
Acquisition (SD)	●●	
SD (Can't use)	●●	
SD (formatting)	▬	
Calibrating IMU	▬	
Wifi (not connected)	○▬	
Wifi (lost connection)	○▬	
Low battery		▬
Charging		▬
Short-Circuit		▬
Config mode	▭	

○ Slow blink
○○ Fast blink
▭ Fixed on