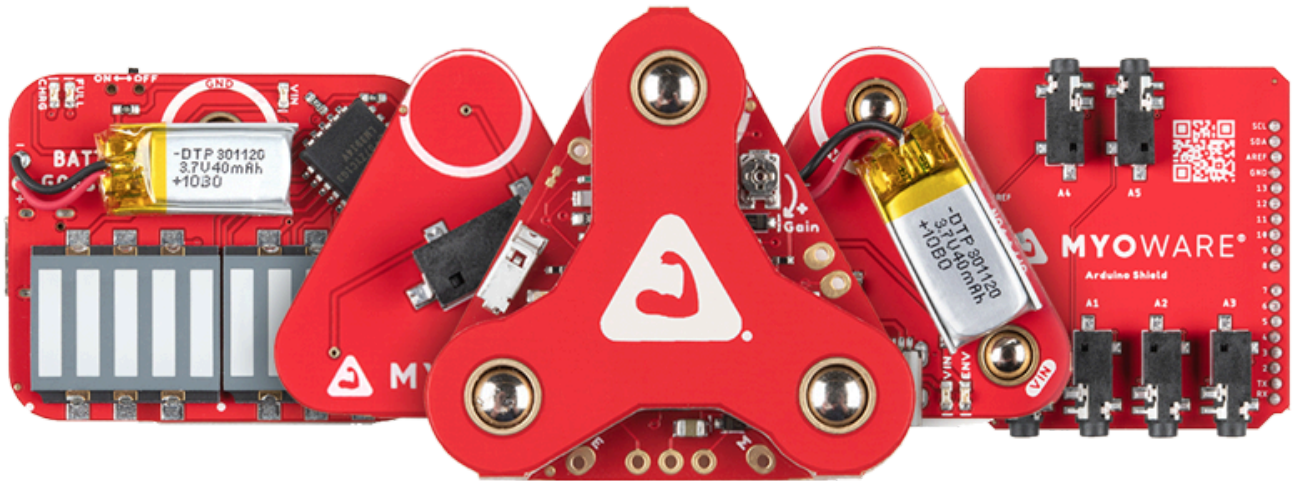


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MYOWARE 2.0

Technical Specifications



MYOWARE 2.0 TECH SPECS:

Muscle Sensor


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250 pA, max 1
nA

$f_c = 498.4 \text{ Hz}$, 2-
20dB

Input

Impedance:
800

Low-pass Filter:

Active 1st order,
 $f_c = 498.4 \text{ Hz}$, 2-
20dB

**Common Mode
Rejection Ratio
(CMMR):**
140 dB

Envelope

Detection:

Linear, Passive
1st order,

Ideal Gain

Equation:

Raw (RAW): $G = 200$

Rectified (RECT):
 $G = 200$

Envelope (ENV):
 $G = 200 * R / 1$
kOhm

R is the
resistance of the
gain

$f_c = 3.6 \text{ Hz}$, 3 -20
dB

Rectification

Method:

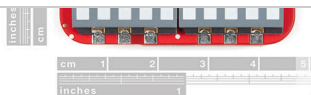
Full-wave

Sample Rate:

Not applicable –
MyoWare Sensor
is analog. See
measuring


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Output Voltage (e.g. "VIN")

Nominal Voltage:
3.7V

Fully Charged:
4.2V

Power Switch

Built-in LiPo Battery

Rated Capacity:
40mAh

Nominal Voltage:
3.7V

Max Charge

Current: 1C
(40mA)

MCP73831 Single
Cell LiPo Charge
IC

Charge Rate Set
to 40mA

increments

2 modes:

- Bar (Bars light up to current increment),
- Dot (Only current increment bar lights up)

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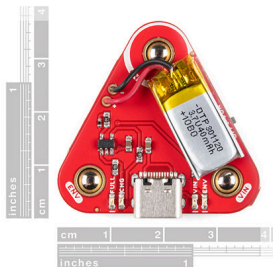
Conductor, TRS)

Tip: MID, Ring:

END, Sleeve: REF

MYOWARE 2.0 TECH SPECS:

Power Shield



Power Switch

Built-in LiPo
Battery

Rated Capacity:
40mAh

Nominal Voltage:
3.7V

Max Charge
Current: 1C
(40mA)

Input Voltage:
5V via USB Type
C Connector

Output Voltage
(e.g. "VIN"):

Nominal
Voltage: 3.7V

Fully Charged:
4.2V

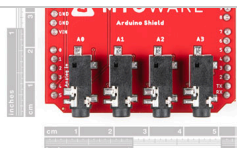
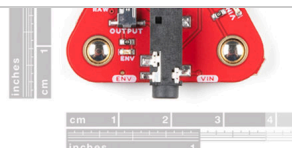
MCP73831

Single Cell LiPo
Charge IC

Charge Rate Set
to 40mA


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mm TRS cable

Link Shield

3 output modes:

EMG Envelope

(default), Raw

EMG, Rectified

EMG

3.5mm TRS

Connector

Tip: GND, Ring:

+Vs, Sleeve:

Sensor Output

Reference/GND

Jumper

Power Switch

Arduino Shield

Six 3.5mm TRS

Connectors

Tip: GND, Ring:

+Vs, Sleeve:

Sensor Output

Analog pins A0-

A5

3.3V/5V Power

Jumper

Arduino Uno R3

Standard

Footprint

Male Headers

Soldered

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If you don't find what you need there, the SparkFun Forums under Biometrics is another great place to find and ask for help.

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We've partnered with the electronics gurus at SparkFun Electronics to manufacture and handle the sale of the entire **MYOWARE 2.0** Ecosystem. Designed by our myoelectric experts, built by SparkFun.

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