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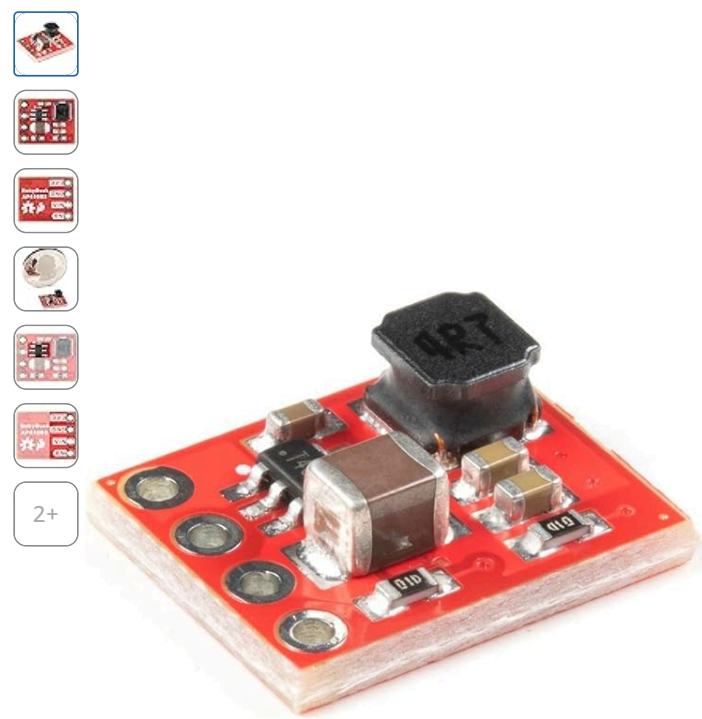
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SparkFun BabyBuck Regulator Breakout- 3.3V (AP63203)- Regulate power- 2A synchronous buck converter- wide input 3.8V-32V- high-efficiency step-down DC/DC conversion- low profile 0.4in x 0.5in footprint

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5.0 (3)

\$12⁸²

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Brand	SparkFun
Model name	BabyBuck Regulator Breakout
Included components	Fixed Output Voltage - 3.3V
CPU manufacturer	ARM
Processor count	1
UPC	845156011674

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What is the input voltage range?

Does it have overvoltage protection?

Can it be used for DIY projects?

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About this item

- Who doesn't occasionally need power regulation? We certainly do, so we've designed the SparkFun BabyBuck Regulator Breakout to help us with just such a task. Note: Smaller buck board converter only. Headers not included.
- Featuring the AP63203 from Diodes Inc, this breakout board takes advantage of a 2A synchronous buck converter that has a wide input voltage range of 3.8V to 32V and fully integrated 125mΩ high-side power MOSFET/68mΩ lowside power MOSFET to provide high-efficiency step-down DC/DC conversion. All of this snuggled up in a low-profile, TSOT26 package that's integrated into a 0.4in by 0.5in board.
- Features: Low-Profile Footprint; VIN 3.8V to 32V; VOUT 3.3V; Up to 2A Continuous Output Current; 0.8V ± 1% Reference Voltage; 22μA Ultralow Quiescent Current; Switching Frequency - 1.1MHz
- Also features: Supports Pulse Frequency Modulation (PFM). Up to 80% Efficiency at 1mA Light Load, Up to 88% Efficiency at 5mA Light Load; Fixed Output Voltage - 3.3V; Proprietary Gate Driver Design for Best EMI Reduction
- More features: Frequency Spread Spectrum (FSS) to Reduce EMI; Precision Enable Threshold to Adjust UVLO; Protection Circuitry, Overvoltage Protection, Cycle-by-Cycle Peak Current Limit, Thermal Shutdown

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Product information

Features & Specs

Processor Brand	ARM
Processor Count	1

Feedback

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Item details

Brand	SparkFun
Model Name	BabyBuck Regulator Breakout
Built-In Media	Fixed Output Voltage - 3.3V
UPC	845156011674
Customer Reviews	5.0 (3) 5.0 out of 5 stars
Best Sellers Rank	#322,752 in Tools & Home Improvement (See Top 100 in Tools & Home Improvement) #1,928 in International Power Adapters
ASIN	B09KTF9BTR
Country of Origin	USA
Item height	5 millimeters
Manufacturer	SparkFun Electronics
Warranty Description	30 Days

Product description

Who doesn't occasionally need power regulation? We certainly do, so we've designed the SparkFun BabyBuck Regulator Breakout to help us with just such a task. Featuring the AP63203 from Diodes Inc, this breakout board takes advantage of a 2A synchronous buck converter that has a wide input voltage range of 3.8V to 32V and fully integrated 125mΩ high-side power MOSFET/68mΩ lowside power MOSFET to provide high-efficiency step-down DC/DC conversion. All of this snuggled up in a low-profile, TSOT26 package that's integrated into a 0.4in by 0.5in board. Unlike it's sibling, the BabyBuck sacrifices power option flexibility for space. Don't worry, though, because you can still use the plated through holes for input and output power. With some simple right-angle headers, you'll be up and running in no time. Frequency Spread Spectrum (FSS) reduces EMI and a proprietary gate driver scheme resists switching node ringing without sacrificing MOSFET turn-on and turn-off times, which further erases high-frequency radiated EMI noise.

- Features:
- Low-Profile Footprint
 - VIN 3.8V to 32V
 - VOUT 3.3V
 - Up to 2A Continuous Output Current
 - 0.8V ± 1% Reference Voltage
 - 22μA Ultralow Quiescent Current
 - Switching Frequency - 1.1MHz
 - Supports Pulse Frequency Modulation (PFM)
 - Up to 80% Efficiency at 1mA Light Load
 - Up to 88% Efficiency at 5mA Light Load
 - Fixed Output Voltage - 3.3V
 - Proprietary Gate Driver Design for Best EMI Reduction
 - Frequency Spread Spectrum (FSS) to Reduce EMI
 - Precision Enable Threshold to Adjust UVLO
 - Protection Circuitry
 - Overvoltage Protection
 - Cycle-by-Cycle Peak Current Limit
 - Thermal Shutdown

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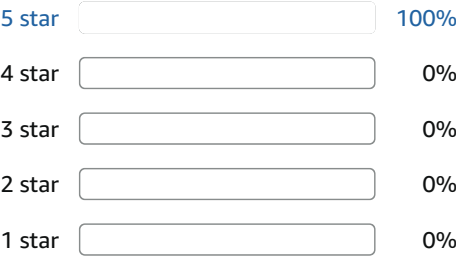
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- What is the input voltage range?
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- Is it easy to install?
- Does it come with a user manual?

Customer reviews

5 out of 5

3 global ratings



How are ratings calculated?

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There are 0 reviews from Canada

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Capfred

Great to help replace batteries in devices.

Reviewed in the United States on December 30, 2024

Verified Purchase

Works great with a usb-c port to eliminate batteries in many projects, either two or three battery devices. Caution for two battery devices as technically they should be 3V max, however 3.3v seems close enough.

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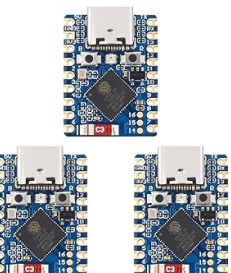
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