

Product Line Comparison Vs Competition

	Competition								Competition	Competition
Name	MB102	1A	1B	1C	2	3A	3B	3C	KPS3010D	DS1102E
Price (\$USD)	💰 \$5.69	💰 \$5.00*	💰 \$7.50*	💰 \$9.99*	💰 💰 \$15.99*	💰 💰 💰 \$18.99*	💰 💰 💰 29.99*	💰 💰 💰 \$49.99*	💰 💰 💰 💰 \$89.99	💰 💰 💰 💰 \$311.84
USB Powered	✅	✅	✅	✅	✅	✅	✅	✅	❌	❌
Barrel Jack Powered (5.5 mm x 2.1 mm)	✅	❌	❌	❌	❌	✅	❌	❌	❌	❌
3V and 5V Rails	✅	✅	✅	✅	✅	❌	❌	❌	✅	❌
Rechargeable Lithium Polymer Battery	❌	✅	✅	✅	✅	✅	✅	✅	❌	❌
Uninterruptable Operation (Quick Disconnect)	❌	✅	✅	✅	✅	✅	✅	✅	❌	❌
Adjustable Voltage Positive Rail (+)	❌	✅	✅	✅	✅	✅	✅	✅	✅	❌
Voltage Feedback Positive Rail (+)	❌	✅	✅	✅	✅	✅	✅	✅	✅	❌
Current Limiting Positive Rail (+)	❌	❌	❌	✅	✅	✅	✅	✅	✅	❌
Current Feedback	❌	❌	❌	✅	✅	✅	✅	✅	✅	❌
Battery Voltage Indicator	❌	❌	❌	❌	✅	✅	✅	✅	❌	❌
MCU	❌	❌	❌	❌	✅ Atmega328	✅ SAMD21	✅ SAMD21	✅ SAMD51	❌	❌
Graphical Display	❌	❌	❌	❌	✅ 0.91 Oled	✅ 0.96 TFT	✅ 0.96 TFT	✅ 1.3 TFT	✅ 7-Segment	✅ 5.7 inch TFT
Color Display	❌	❌	❌	❌	❌	✅	✅	✅	❌	✅
Adjustable Voltage Negative Rail (-)	❌	❌	❌	❌	✅	✅	✅	✅	❌	❌
Voltage Feedback Negative Rail (-)	❌	❌	❌	❌	✅	✅	✅	✅	❌	❌
Current Limiting Negative Rail (-)	❌	❌	❌	❌	❌	✅	✅	✅	❌	❌
Digital Read High/Low Pins	❌	❌	❌	❌	❌	❌	✅ 5 I/O	✅ 5 I/O	❌	❌
Voltage Analog Read Pins	❌	❌	❌	❌	❌	❌	✅ 2 Pin	✅ 2 Pin	❌	✅
Oscilloscopes	❌	❌	❌	❌	❌	❌	❌	✅	❌	✅
Logic Analyzer	❌	❌	❌	❌	❌	❌	❌	✅	❌	❌
Digital to Analog Converter	❌	❌	❌	❌	❌	❌	✅	✅	❌	✅
Voltage Output Max/Min	+5V	+12V	+12V	+12V	+12V -12V	+12V -12V	+12V -12V	+12V -12V	+30V	N/A
Current Output	500mA	500mA (2A Buck)	500mA (2A Buck)	500mA (2A Buck)	500mA (2A Buck)	500mA (2A Buck)	500mA (2A Buck)	500mA (2A Buck)	10A	N/A
Samples Per Second	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1MSPS(Single) 500kSPS(Dual)	N/A	1000MSPS
Bandwidth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100kHz	N/A	100Mhz