



# MBA

## Solarbotics Kit 11 - The Sumovore Mini-Sumo



A strong Mini- Sumo robot. Educational build yourself kits.

Strong modular design with over 500 man-hours of development and 21 prototypes behind it.

More power, speed, and less expensive than the Junun Mark III, Parallax Mini-Sumo and Tab SumoBots.

Powerful GM8 gearmotors powered by a robust L293D motor driver. Modular brain boards (discrete brainboard included).

Four opto-reflector edge sensors (fifth edge sensor position available when using microprocessor brainboard).

Two 38kHz IR emitters and detectors for opponent detection. Requires 6 AA power supply.

### Solarbotics Kit 11 - The Sumovore Mini-Sumo

Part Number	Description	Skill Level	Features	Features	Features	Features	Features	Features	Features	Features
# SB-KSV-Atmel	Sumovore add-on	4 / 5	More flexibility than the Sumovore standard brain	ATmega8-based Brainboard lets you program in practically any language	Download the code via a simple parallel-port cable!	Includes 3 aux/servo headers, SP-12 and STK-500 programming headers	Includes Programming indicator LED, 5 general indicator LEDs, Breadboarding space	Access to regulated 5V and unregulated 6V power		

# Indicates item not stocked at time of printing - Please enquire for lead time

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MBA Size Listings are a guide to sizes only and must not be solely relied on for critical design information.

## Solarbotics Kit 11 - The Sumovore Mini-Sumo

Part Number	Description	Skill Level	Features	Features	Features	Features	Features	Features	Features	Features
# SB-KSV-BS2	Sumovore add-on	4 / 5	Program the Sumovore with a Basic Stamp II add-on	Lets you interface your own BS2 compatible or Stamp Stack II module (not incl.) to your Sumovore.	Remove default discrete brain, add this interface board and your own controller and it is ready					
# SB-KSV-PIC	Sumovore add-on	4 / 5	Make your Sumovore programmable with a PIC	Replace the standard discrete-logic brain with the Microchip 16F877A brainboard add-on	33 I/O lines, Eight 10-bit ADC ,Two PWM channels	In-circuit programming, Five indicator LEDs ,Three servo/aux headers	Extra breadboarding space for customized support circuitry	5-pin and RJ11-6 programming headers	The chip comes pre-programmed with default mini-sumo and line-follower code.	
SB-KSV	Sumovore Mini-Sumo - Approx Size: 165 x 140 x 70 mm	4/5	Discrete brainboard Anti Sumo-dance behavior (stops two sumos from spinning around each other)	Anti edge-ram behavior (stops dual edge triggers resulting in repeated edge-charging)	Discrete brainboard offers selectable sumo/line-follower modes	Multiple trim pots for simple behavior tuning	Modular front edge sensor / IR transmitter daughterboard,	Powder-coated front Steel (not Aluminum) plates	32-page detailed instruction document contains full electronic schematics, both logical and symbolic	345 grams finished weight with Batteries in (6 x AA batteries not included)

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