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PARALLAX SMALL ROBOTS - COMPARISON CHART FOR COMPLETE KITS ROBOT → **FEATURES Boe-Bot Robot Kit Robot Shield With Arduino** ActivityBot Robot Kit 28832 32335 32500 **Programming** Propeller P8X32A included Arduino Uno module 🏗 BASIC Stamp 2 module 👯 Microcontroller on the Activity Board included included **Programming language PBASIC** Arduino Single-core with interrupts for Multi-core with 8 processors Single-core sequential **Processing** for multiprocessing processing multitasking **Tutorial format** Printed book Web Web (grades 8-14) (& free PDF) **BASIC Stamp Editor** Arduino IDE 🕠 SimpleIDE Free software **Development Board and Features** Propeller Activity Board **Board of Education with BS2 Board of Education Shield Development board** 35000 (specs w/ Arduino Uno) Module 28803 32910 Solderless breadboard Yes Yes Yes Free digital I/O pins 16 14 18 3-pin servo headers 4 4 6 microSD card & socket Yes No No **XBee RF socket** No No Yes Audio output jack No Yes No 4 12-bit A/D inputs None 6 10-bit **USB** powered No Yes Yes **Sensor Components Included** 2 Touch-whisker 2 2 **Light sensor** 2 2 2 IR object detector 2 2 6 PING))) Ultrasonic Distance 0 0 1 Sensor **Drive & Power Systems** High-speed 7.5 VDC Servo motors Original 6 VDC, 50 RPM Original 6 VDC, 50 RPM 120 RPM w/ encoders (continuous rotation) 180 RPM w/o encoders Wheel encoders No No Yes Battery pack* 4 AA 1.5 V (6 V total) 5 AA 1.5 V (7.5 V total) 5 AA 1.5 V (7.5 V total)

Open-source hardware nad software . *Batteries not included.

BASIC Stamp and Boe-Bot are registered trademarks of Parallax Inc. Arduino is a registered trademark of Arduino, LLC. XBee is a registered trademark of Digi International. V1.1 replaces Robotics Shield Kit without Arduino or cable (130-35000) with Robot Shield With Arduino (32335)

PARALLAX SMALL ROBOTS – COMPATIBLE HARDWARE ADD-ONS			
ADD-ONS↓ / ROBOT→	Boe-Bot Robot Kit 28832	Robot Shield With Arduino 32335	ActivityBot Robot Kit 32500
Li-lon Power Pack/Charger 28988	Yes, be sure to power servos with 5 V, not VIN	Yes, be sure to power servos with 5 V, not VIN	Yes, and you can power servos with VIN
OT HAN U	<u>Li-lon batteries sold</u> <u>separately</u>	<u>Li-lon batteries sold</u> <u>separately</u>	<u>Li-lon batteries sold</u> <u>separately</u>
Boe-Boost 30078	Yes, adds a 5 th battery, for a total of 6 V with 1.2V rechargeable batteries.	Yes, adds a 6 th battery, for a total of 7.2 V with 1.2V rechargeable batteries.	Yes, adds a 6 th battery, for a total of 7.2 V with 1.2V rechargeable batteries.
PING))) Mounting Bracket Kit 570-28015	Yes, but PING))) Ultrasonic Distance Sensor (28015) must also be purchased separately	Yes, but PING))) Ultrasonic Distance Sensor (28015) must also be purchased separately	Yes! PING))) sensor is included with the ActivityBot Kit, so only the Mounting Bracket is needed.
QTI Line Follower Kit 28108	Yes	Yes	Yes
Gripper Kit 28202	Yes	No. The Arduino Uno mounted under the board obstructs mounting the Gripper hardware.	Yes
veho360 Speaker 900-00018 & Speaker Mount 725-32905	No	No	Yes! The Propeller microcontroller can play WAV files from the microSD card.
Tank Tread Kit 28106	Yes	Yes	Yes, but you must remove the wheel encoders. Be sure to add drive_feedback(0); to your C program.
Crawler Legs Kit 30055	Yes	Yes	Yes, but you must remove the wheel encoders. Be sure to add drive_feedback(0); to your C program.
Digital Encoder Kit for Boe-Bot 28107	Yes	No	Not needed! 64-tick encoders are included with the ActivityBot kit.