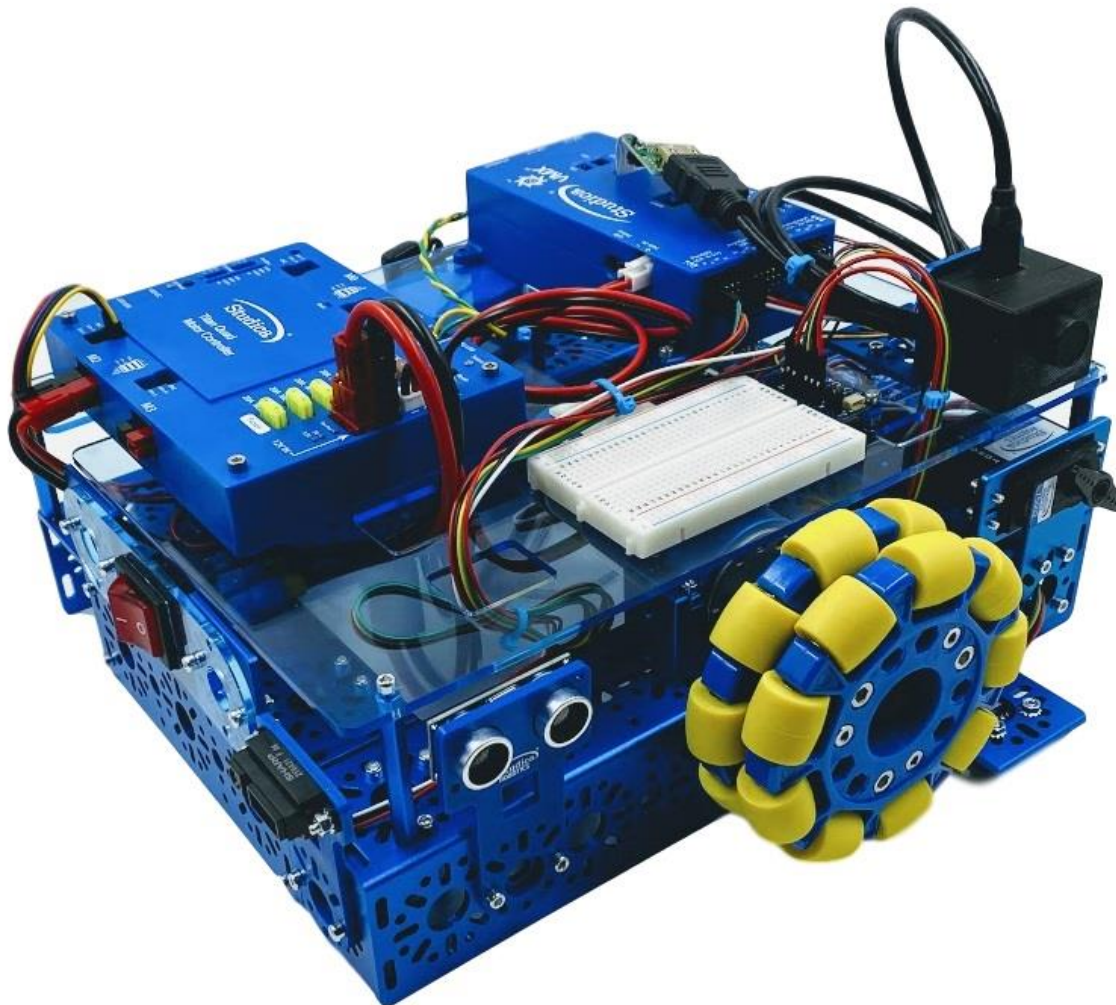























Autonomous Mobile Robotics Workshop Kit



















The Autonomous Mobile Robotics Workshop Kit is used in the classroom for teaching, testing and doing research in mobile robotics. It includes the essential components referenced in the WorldSkills Mobile Robotics training material.





Documentation & Training Material - [Resources](#) | [Studica Robotics](#)



Autonomous Mobile Robotics Workshop Kit - Parts List

Description	Part #	Image	In Pack	In Kit
Electronics and Accessories				
IR Range Sensor (10 cm to 80 cm)	40117		1	1
IR Range Sensor Bracket	40118		1	1
Zip Ties, Blue, 150mm (100 pack)	70010		100	1
12V 3,000 mAh NiMH Battery Pack, PP45	70018		1	1
NiMH Battery Pack Charger, PP45	70019		1	1
2.5mm Hex Ball End Screwdriver	70142		1	1
Cobra Line Follower Sensor	70151		1	1
Titan Quad Motor Controller	70152		1	1
VMX Wire Pack	70160		1	1
Titan Cable Pack w/1 CAN Cable & 2 JST-VH to JST-VH Cable	70162		1	1
VMX Robotics Controller	70176		1	1
Power Switch	70183		1	1
Power Switch Plate	70184		1	1
USB Cable, Type A to Type C, Blue, 2M	70186		1	1
Ultrasonic Distance Sensor	70753		1	1
Ultrasonic Distance Sensor Bracket	40238		1	1
Analog Module w/JST-SH to JST-GH Cable	70755		1	1
PWM cable Set - TJC8 3 pin, 22AWG, F-F - 12 pcs	71011		12	1
Electronics Mounting Plate	71015		1	1
Half Breadboard	71016		1	1
Dupont Single Pin, 4 wire, F-F Cable - 2 pack	71014		2	1

3D Depth Camera	71044		1	1
Maverick 12V DC Gear Motor w/Encoder	75001		1	1
Multi-Mode Smart Servo	75002		1	1
Smart Robot Servo Programmer	75003		1	1
Servo Power Block	75006		1	1
Short Lever Limit Switch (4 pack)	72060		4	1
U-Channel				
288mm U-Channel (2 pack)	76013-2		2	1
144mm U-Channel (2 pack)	76016-2		2	1
Irregular Brackets				
Battery Clip (2 pack)	76088-2		2	1
Inside L Bracket (2 pack)	76089-2		2	3
Mounting Plates				
Motor Mount Clamp Kit	76141		1	1
End Piece Plate (2 pack)	76143-2		2	2
Servo Mount Offset Plate	76146		1	1
Standoffs				
48mm Standoff (12 pack)	76181-12		12	1
25mm Standoff (12 pack)	76182-12		12	1
Screws, Nuts				
M3 x 8mm Socket Head Cap Screw (pack of 100)	76200-100		100	1
M3 x 12mm Socket Head Cap Screw (pack of 100)	76202-100		100	1
M3 Kep Nut (pack of 100)	76204-100		100	1

M3 x 30mm Socket Head Cap Screw	76206-50		50	1
M3 x 20mm Socket Head Cap Screw	76209-50		50	1
Shaft Spacer Plastic 6mm ID x 10mm OD x 2mm L (24 pack)	76306-24		24	1
Wheels				
Omni Wheel (100mm, Double Plastic, w/ integrated 6mm Hub)	76260		1	1