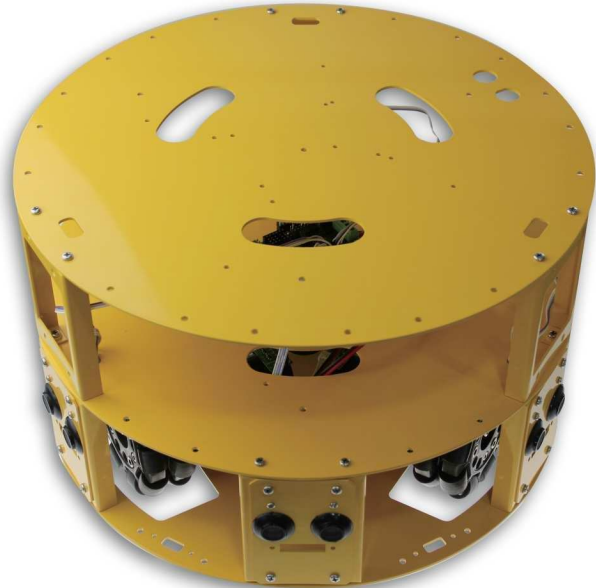
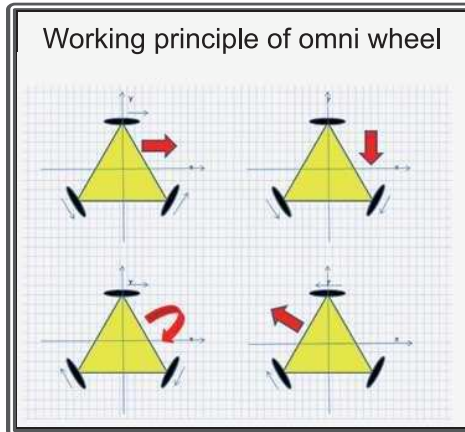
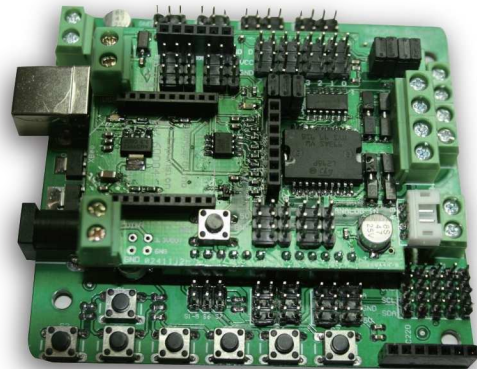


3WD 100mm omni wheel robot kit 10006



A omni-wheel robot can instantaneously move in any direction. It does not need to do any complex motions to achieve a particular heading. This type of robot would have 2 degrees of freedom in that it can move in both the X and Y plane freely.



Specifications:

Chassis	Appearance	Circular
	Max Width	363mm
	Height	140mm
	Chassis Height	20mm
	Wheel Base	275mm
	Radius	128mm
	Coupled Mode	Compaction
	Material	Aluminium Alloy
	Color	Yellow, Black
	Speed	0.6m/s
	Drive Mode	3 wheels drive
	Climbing Capacity	20degree
	Load Capacity	15kg
	min-ITX Compatible	Yes
Wheel	Type	90 degree Omni Wheel
	Diameter	100mm or 123mm
	Thickness	38mm
	Load Capacity	15kg
	Body Material	Aluminum alloy
	Diameter of Roller	19mm
	Length of Roller	19mm
Coupled Mode	Brass Tube or bearings	

Motor	Type	Faulhaber 12V DC Coreless Motor
	Power	17W
	RPM	120rpm
	Diameter	30mm
	Length	42mm
	Total Length	85mm
	Diameter of Shaft	6mm
	Length of Shaft	35mm
	No Load Current	75mA
	Load Current	1400mA
Encoder	Gearbox Ratio	64:1
	Type	Optical
	Encoder Phase	AB
Battery and Charger	Encoder Resolution	12CPR
	Battery	12V Ni-Mh
	Slow Charger	100-240V In, 2.4-12V Out
	Duration of Charge	2 hours
	Running Time	0.5 hour

Microcontroller Specification	Atmega 328
	14 Channels Digital I/O
	6 PWM Channels (Pin11, Pin10, Pin9, Pin6, Pin5, Pin3)
	8 Channels 10-bit Analog I/O
	USB interface
	Auto sensing/switching power input
	ICSP header for direct program download
	Serial Interface TTL Level
	Support AREF
	Support Male and Female Pin Header
	Integrated sockets for APC220 RF Module
	Five IIC Interface Pin Sets
	Two way Motor Drive with 2A maximum current
IO expansion board	7 key inputs
	DC Supply: USB Powered or External 7V-12V DC
	DC Output: 5V / 3.3V DC and External Power Output
	Dimension: 90x80mm
	To support RS485 interface or drive 4 motors