

Items	Burger	Waffle
Maximum translational velocity	0.22 m/s	0.26 m/s
Maximum rotational velocity	2.84 rad/s (162.72 deg/s)	1.82 rad/s (104.27 deg/s)
Maximum payload	15kg	30kg
Size (L x W x H)	138mm x 178mm x 192mm	281mm x 306mm x 141mm
Weight (+ SBC + Battery + Sensors)	1kg	1.8kg
Threshold of climbing	10 mm or lower	
Expected operating time	2h 30m	2h
Expected charging time	2h 30m	
MCU	32-bit ARM Cortex®-M7 with FPU (216 MHz, 462 DMIPS)	
IMU	Gyroscope 3 Axis	
	Accelerometer 3 Axis	
	Magnetometer 3 Axis	
Power connectors	3.3V / 800mA	
	5V / 4A	
	12V / 1A	
Expansion pins	GPIO 18 pins	
	Arduino 32 pin	
Peripheral	UART x3, CAN x1, SPI x1, I2C x1, ADC x5, 5pin OLLO x4	
Dynamixel ports	RS485 x 3, TTL x 3	
Audio	Several programmable beep sequences	
Programmable LEDs	User LED x 4	
Status LEDs	Board status LED x 1	

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	Arduino LED x 1	
	Power LED x 1	
Buttons and Switches	Push buttons x 2, Reset button x 1, Dip switch x 2	
Battery	Lithium polymer 11.1V 1800mAh / 19.98Wh 5C	
PC connection	USB	
Firmware upgrade	via USB / via JTAG	
Power adapter (SMPS)	Input : 100-240V, AC 50/60Hz, 1.5A @max	
	Output : 12V DC, 5A	