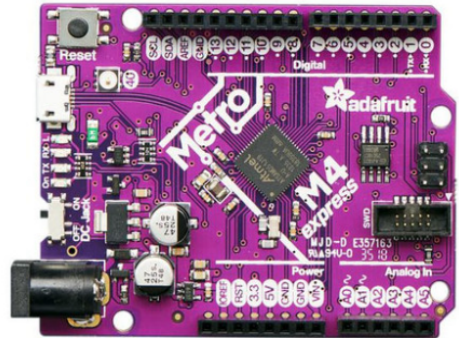
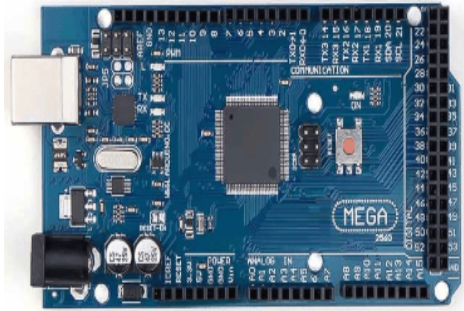
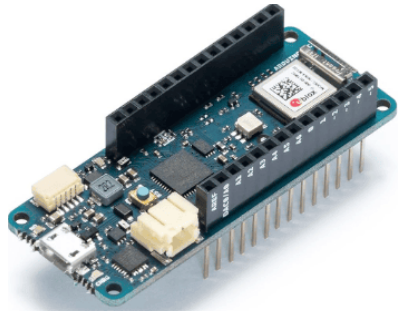
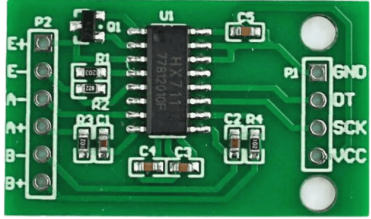
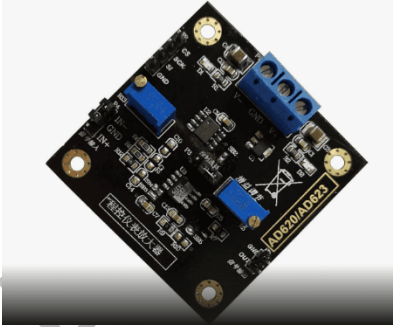

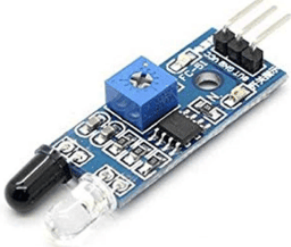
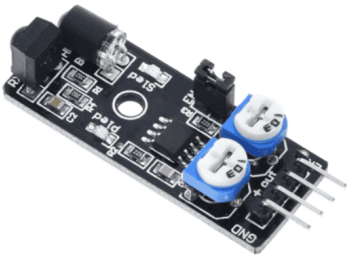


Description

This document provides a curated list of hardware components and sensors, that can be used to integrate with the ROTRIX application. The listed hardware has been selected to act as a guide, offering users a starting point for designing their systems. These components are compatible with the application and can facilitate seamless data acquisition and communication. It is important to note that users are not limited to the hardware mentioned in this guide. The list serves as a reference, and users can substitute or select alternative sensors and components that align with their specific requirements and system configurations.

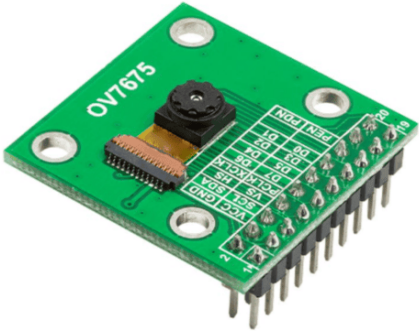

S.No	Product Name	Image
Micro-controller		
1	Adafruit Metro M4 Express featuring ATSAMD51	
2	Mega 2560 ATmega2560-16U2 Board	
3	MKR WiFi 1010	

Load Cell		
4	Shear Beam Load Cell	
5	S-BEAM Load cell	
6	Multi-axis Load cell	
7	3-axis Load Cell	

8	HX711 Amplifier	
9	AD620 Instrumentation Amplifier	
RPM Sensor		
10	SBS-01RO Optical RPM Sensor	
11	Infrared(IR) RPM Sensor Module	
12	Optical RPM Sensor	
13	Infrared RPM Sensor 38KHz	

Current and Voltage Sensor		
14	Tarot Voltmeter	
15	B25 Voltage Sensor module	
16	WCS1700 Hall Current Sensor	
17	Gravity Current Sensor Module	

Temperature Sensor		
18	Gravity Waterproof DS18B20 Temperature Sensor Kit	
19	FirstRate FST600-400A Non-Contact Infrared Temperature Sensor	
20	Adafruit MLX90640 thermal camera	
21	Panasonic AMG8833 (Grid-EYE)	
22	MLX90641 Infrared Thermal Cam	

Image Sensor		
23	Arducam 0.3MP OV7675 Camera Module	
24	Mini 0.3MP MIPI Camera Module GC0308 Sensor	
25	ArduCAM Mini 5MP Plus	