**Görev yükü**

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| --- | --- | --- | --- |
| komponent | ağırlık | Güc tüketimi | Bilgi kaynakları |
| NEO-6M | 2.8 oz (58,9g) | 3.3V-5V (kesin)   40 mA- 67 mA | [Neo6mkaynak](https://www.amazon.com/Module-NEO-6M-Microcontroller-Receiver-SSD1306/dp/B0987L14YN/ref=sr_1_1?crid=36WBCQ3G8D98M&keywords=GPS+NEO-6M&qid=1674722442&s=electronics&sprefix=gps+neo-6m%2Celectronics%2C216&sr=1-1) |
| DHT-22 | 2.4g | 3.3 – 6 V(kesin)  1-1.5 mA | [Dht22kaynak](https://www.addicore.com/DHT22-Temperature-and-Humidity-Sensor-p/182.htm) |
| ESP8266 | 12g | 5 V(kesin)  12mA | [ESP8266kaynak](https://whadda.com/product/nodemcu-v2-lua-based-esp8266-development-board-wpb107/) |
| MS5611 | 1.2g | 1.8 to 3.6 V(kesin)  1.5mA | [MS5611kaynak](https://www.amsys-sensor.com/products/pressure-sensor/ms5611-high-resolution-barometric-sensor-10-1200-mbar/) |
| Voltaj controller XL6009 | 1.9 oz(53g) | 5-32 V(kesin)  18mA | [Xl6009kaynak](https://www.amazon.com/XL6009-XL6009E1-Boost-Converter-Module/dp/B07XG323G8) |
| Buzzer | 1.6 g (0.057 oz) | 4-8V (rated 5V)  20mA | [Buzzerkaynak](https://www.google.com/search?q=buzzer+weight&rlz=1C1YTUH_trAZ1027AZ1028&sxsrf=AJOqlzXAJ9vuCN7j1ml74vb3awSrtkQkZw%3A1674722716977&ei=nD3SY7SbO-iUxc8Pituu4AU&ved=0ahUKEwi02ZGl7OT8AhVoSvEDHYqtC1wQ4dUDCA8&uact=5&oq=buzzer+weight&gs_lcp=Cgxnd3Mtd2l6LXNlcnAQAzIFCCEQoAEyBQghEKABMgUIIRCgATIFCCEQoAEyCAghEBYQHhAdOgoIABBHENYEELADOgcIABCwAxBDOgYIIxAnEBM6CAgAEIAEEMsBOgYIABAWEB46CggAEIAEEAoQywE6BQgAEIAEOggIABAWEB4QD0oECEEYAEoECEYYAFCMDVjIMmCFNWgBcAB4AIABvwGIAY8RkgEEMC4xNZgBAKABAcgBCsABAQ&sclient=gws-wiz-serp) |
| Button |  |  |  |
| Batarya(orion rechargeable - 18650) |  |  |  |
| Paraşüt |  |  |  |
| Xbee pro s2c | 0.0104 lbs (4.7g) | 2.7-3.6 V (kesin)  120mA | [xbeekaynak](https://www.makerlab-electronics.com/product/xbee-pro-s2c-wire-antenna/) |

240mA

63.2V

**Taşıyıcı**

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| --- | --- | --- | --- |
| komponent | ağırlık | Güc tüketimi | Bilgi kaynakları |
| ESP8266 | 12g | 5V(kesin)  12mA | [ESP8266kaynak](https://whadda.com/product/nodemcu-v2-lua-based-esp8266-development-board-wpb107/) |
| MS5611 | 30g | 1.8 to 3.6 V(kesin)  1.5mA | [MS5611kaynak](https://www.amsys-sensor.com/products/pressure-sensor/ms5611-high-resolution-barometric-sensor-10-1200-mbar/) |
| Mg90 | 13.4 g | 4.8-6 V(kesin)  2.7mA | [Mg90kaynak](https://pdf1.alldatasheet.com/datasheet-pdf/view/1132104/ETC2/MG90S.html) |
| Voltaj controller XL6009 | 1.9 oz(53g) | 5-32 V(kesin)  18mA | [Xl6009kaynak](https://www.amazon.com/XL6009-XL6009E1-Boost-Converter-Module/dp/B07XG323G8) |
| Paraşüt |  |  |  |
| Xbee pro s2c | 0.0104 lbs (4.7g) | 2.7-3.6 V (kesin)  120mA | [xbeekaynak](https://www.makerlab-electronics.com/product/xbee-pro-s2c-wire-antenna/) |

154.2 mA

50.2V

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| komponent | deger | kaynak |
| NEO-6M | 22 AZN  129.30 TL | [Makerstoreucret](https://store.makerspace-az.org/product/gps-u-blox-neo-6m-module/)  [Robo90ucret](https://www.robo90.com/neo-6m-gps-modulu-ucus-kontrol-sistemi-sma-disi) |
| DHT-22 | 12 AZN | [Makerstoreucret](https://store.makerspace-az.org/product/dht11-dht22-temperature-humidity-sensor/) |
| ESP8266 | 14.20 AZN  16 AZN  4.96 USD  68.05 TL | [Robotzadeucret](https://www.robotzade.az/product/nodemcu-lolin-esp8266-inkisaf-karti-esp-12e-1)  [Makerstoreucret](https://store.makerspace-az.org/product/esp8266-node-mcu-wifi-dev-board/)  [Robotistanucret](https://www.robotistan.com/nodemcu-lolin-esp8266-gelistirme-karti)  [Robo90ucret](https://www.robo90.com/nodemcu-v3-esp8266-gelistirme-karti-ch340g) |
| MS5611 | 173.13 TL | [Direncnetucret](https://www.direnc.net/ms5611-gy-63-basinc-altimetre-sensoru) |
| Voltaj controller XL6009 | 5 AZN  1.26 USD  30.62 TL | [Makerstoreucret](https://store.makerspace-az.org/product/boost-converter-xl6009/)  [Robotistanucret](https://www.robotistan.com/ayarlanabilir-step-up-boost-voltaj-regulator-karti-xl6009-4-a)  [Robo90ucret](https://www.robo90.com/xl6009-dc-dc-voltaj-yukseltici-regulator-step-up-boost) |
| Buzzer | 4.08 TL  1 AZN  0.61 AZN  0.40 USD | [Robo90ucret](https://www.robo90.com/pasif-buzzer-5v)  [Makerstoreucret](https://store.makerspace-az.org/product/buzzer-zummer/)  [Robotzadeucret](https://www.robotzade.az/product/dovreli-buzzer-5v-12v-12mm)  [Robotistanucret](https://www.robotistan.com/buzzer) |
| Mg90 | 52.17 TL  2.84 USD  10 AZN  8.74 AZN | [Robo90ucret](https://www.robo90.com/mg90s-mikro-servo-motor-22-kg-tork)  [Robotistanucret](https://www.robotistan.com/mg90s-servo-motor)  [Makerstoreucret](https://store.makerspace-az.org/product/mini-servo-mg90/)  [Robotzadeucret](https://www.robotzade.az/product/mg90-servo-motor-metal-disli-180-derece) |
| Button | 0.25 USD  4.54 TL | [Robotistanucret](https://www.robotistan.com/ic125b-s-mini-anahtar)  [Robo90ucret](https://www.robo90.com/mini-yuvarlak-switch-on-off-16mm-siyah) |
| Batarya(orion rechargeable - 18650) | 55.13 TL  83.31 TL  144.90 TL  66.15 TL | [Pilsitesi](https://www.pilsitesi.com/orion-18650-3.7v-2200mah-sarj-edilebilir-li-ion-pil)  [trendyolucret](https://www.trendyol.com/orion/18650-3-7v-2600mah-sarj-edilebilir-li-ion-pil-p-78086946)  [Hepsiburada](https://www.hepsiburada.com/orion-18650-3-7v-3200mah-sarjli-li-ion-pil-pm-HB00000O1IZJ)  [Pilsitesi](https://www.pilsitesi.com/orion-18650-3.7v-2600mah-sarj-edilebilir-li-ion-pil) |
| Paraşüt |  |  |
| Xbee( ötürücü ) | 89 AZN | [Makerstoreucret](https://store.makerspace-az.org/product/xbee-pro-s2c-simsiz-transiver-modulu/) |
| 5dBi anten | 1.7 USD | [robotistanucret](https://www.robotistan.com/24ghz-5dbi-sma-anten) |
| 18650 şarj cihazı | 183.34 TL | [Trendyolucret](https://ty.gl/p3vv4g30d8) |

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| komponent | fiyat | Robo90 link |
| NEO-6M | 129.30 TL | [Robo90ucret](https://www.robo90.com/neo-6m-gps-modulu-ucus-kontrol-sistemi-sma-disi) |
| DHT-22 |  |  |
| ESP8266 | 68.05 TL | [Robo90ucret](https://www.robo90.com/nodemcu-v3-esp8266-gelistirme-karti-ch340g) |
| MS5611 |  |  |
| Voltaj controller XL6009 | 30.62 TL | [Robo90ucret](https://www.robo90.com/xl6009-dc-dc-voltaj-yukseltici-regulator-step-up-boost) |
| Buzzer | 4.08 TL | [Robo90ucret](https://www.robo90.com/pasif-buzzer-5v) |
| Mg90 | 52.17 TL | [Robo90ucret](https://www.robo90.com/mg90s-mikro-servo-motor-22-kg-tork) |
| Button | 4.54 TL | [Robo90ucret](https://www.robo90.com/mini-yuvarlak-switch-on-off-16mm-siyah) |
| Batarya(orion rechargeable - 18650) |  |  |
| Paraşüt |  |  |
| Xbee( ötürücü ) |  |  |

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| --- | --- | --- |
| komponent | Fiyat | Robotzade link |
| NEO-6M |  |  |
| DHT-22 |  |  |
| ESP8266 | 14.20 AZN | [Robotzadeucret](https://www.robotzade.az/product/nodemcu-lolin-esp8266-inkisaf-karti-esp-12e-1) |
| MS5611 |  |  |
| Voltaj controller XL6009 |  |  |
| Buzzer | 0.61 AZN | [Robotzadeucret](https://www.robotzade.az/product/dovreli-buzzer-5v-12v-12mm) |
| Mg90 | 8.74 AZN | [Robotzadeucret](https://www.robotzade.az/product/mg90-servo-motor-metal-disli-180-derece) |
| Button |  |  |
| Batarya(orion rechargeable - 18650) |  |  |
| Paraşüt |  |  |
| Xbee( ötürücü ) |  |  |

Bataryalar şarj edilebiliyor. Bataryalari şarj etmek için , 18650 ile uyumlu 3.7V şarj cihazı kullanılmalıdır.