

UP Xtreme i11 & UP Squared 6000 Robotic Development Kit Quick Start Guide

1. What's in your kit

i. UP Xtreme i11 Robotic Development Kit



UP Xtreme i11 board



8G DDR4 x 2



128G SSD



Wi-Fi kit



RealSense camera(D435i)



96w(12V/8A) power adapter
for UP Xtreme i11



Mecanum Robot plates



Motor Bracket x 4



motors x 4



Wheels x 4



Motor control board
Cables x 4



ST link V2



Micro USB cable



screw set
For motor & wheel assemble



screw set
for bracket & motor assemble



screw set
for board, camera, SSD assemble



screw set
for top plastic plate
motor control board assemble



60w(12V/5A) power adapter
for motor control board

ii. UP Squared 6000 Robotic Development Kit



UP Squared 6000 board



Wi-Fi kit



RealSense camera(D435i)



72w(12V/6A) power adapter



Mecanum Robot plates



Motor Bracket x 4



motors x 4



Wheels x 4



Motor control board



ST link V2



Micro USB cable



screw set
For motor & wheel assemble



screw set
for bracket & motor assemble



screw set
for board, camera, SSD assemble



screw set
for top plastic plate
motor control board assemble



60w(12V/5A) power adapter
for motor control board

2. What is not included but you will need for the first setup of the system:

- A monitor with either HDMI or DisplayPort
- USB keyboard and mouse
- Ethernet cable (if not using the included WiFi module)

Link to digital version of UP Robotic Development Kit QSG: <https://github.com/up-board/up-community/wiki/UP-Robotic-Development-Kit-QSG>

Link for HW Assembly: <https://github.com/up-board/up-community/wiki/UP-Robotic-Development-Kit-HW-Assembly-Guide>

Link for power management: <https://github.com/up-board/up-community/wiki/UP-Robotic-Development-Kit-Power-Management-Guide>

Link for Edge Insights for AMR Developer Guide: <https://www.intel.com/content/www/us/en/develop/documentation/ei4amr-2022-2-developer-guide/top/tutorials/tutorials-amr/wandering-with-aaeon-robotkit.html>