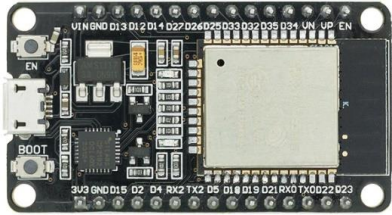

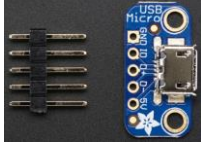


CUBOTino base version: Supplies

Q.ty	Part	link to the shop I've used	Cost (euro)	Notes
1	ESP32 30 pins development board	https://www.aliexpress.com/item/32864722159.html?gatewayAdapt=glo2ita&gatewayAdapt=glo2ita&gatewayAdapt=glo2ita&spm=a2g0o.9042311.0.0.27424c4dBteSlp	4.5	
2	Servo TD-8325MG (180deg 25Kg metal) and metal arm "25T"	https://www.aliexpress.com/item/32298149426.html?gatewayAdapt=glo2ita&spm=a2g0o.9042311.0.0.5d1e4c4d14Qjaz	25 (2 servos + 2 arms)	180 Degree Servo 2PCS + 25T Arm 2PCS (Control by Remote Control) 
<500g	Filament 1.75mm		~10	Suggested PETG, yet other material will do the job
1	USB MICRO-B BREAKOUT BOARD	https://www.adafruit.com/product/1833	1.5	

Electrical small parts:

Q.ty	Part	Notes
1	Prototype board	To make easier the ESP32 placement on the robot, as well as the connections
2x15	Female Headers	To connect the ESP32 to the support board
3x3	Male Headers	To connect the servos and the touch pad cable to the support board
2	Capacitor 16V 220uF	To prevent voltage drop when servos are activated

Screws:

Q.ty	Dimension	Head type
1	M4x20	Cylindrical
~ 20	M3x12	Cylindrical
~30	M3x12	Conical
4	M2.5x10	Cylindrical

Touch pad:

Q.ty	Part	Notes
1	Piece of metal sheet (16x75mm, 1.5 to 2mm thickness)	Aluminium is easy to work with. Alternatively, bare wire in between the two screws will also do the job

Off course some other common materials are needed:

- 1 x USB-Microusb cable with data lines
- 1 x USB-Microusb cable (with or without data lines)
- Eventual phone charger (5V 2A, not of the smart type), if the current drawn by the servos affects your PC.
- wires, solder and solder device, tire wraps, self-adhesive rubber feet, etc.