

CG Scale, mechanical parts	Source	Qty	Price	Shipping	Total price
Frame	3D printed	1			9.50 €
Frame cover	3D printed	2			
Front support	3D printed	1			
Rear support	3D printed	1			
Load cell cover	3D printed	1			
Wing pad	3D printed	4			
M5 x 20mm hex socket head countersunk screw	Ebay/Aliexpress	4	0.04 €	0.00 €	0.15 €
M5 x 8mm hex socket flat head countersunk screw	Ebay/Aliexpress	1	0.04 €	0.00 €	0.04 €
M4 x 16mm hex socket flat head countersunk screw	Ebay/Aliexpress	4	0.04 €	0.00 €	0.15 €
M3 x 12mm hex socket button head screw	Ebay/Aliexpress	8	0.04 €	0.00 €	0.31 €
M3 hex nut	Ebay/Aliexpress	8	0.04 €	0.00 €	0.31 €
OD 3mm x 45mm smooth rod	Cut from carbon rod or eqv	2			0.00 €
OD 2mm x 10mm smooth rod (or 2mm screw)	Cut from pianowire or eqv	4			0.00 €
OD ~15mm soft pads (furniture type) (or 4 only if you like)	Local store	8			0.00 €
CG Scale, electronics parts					
PCB Custom	Seed Fusion	1	5.50 €	0.00 €	5.50 €
Arduino pro 5V	Ebay/Aliexpress	1	2.30 €	0.00 €	2.30 €
HX711 module, see note 2 below	Ebay/Aliexpress	2	2.50 €	0.50 €	6.00 €
YZC-133 2kg - Load cell front	Ebay/Aliexpress	1	1.75 €	0.00 €	1.75 €
YZC-133 3kg - Load cell rear	Ebay/Aliexpress	1	3.90 €	0.30 €	4.20 €
Resistor 1k 0.25W (for LED)	Ebay/Aliexpress	1	0.00 €	0.00 €	0.00 €
Resistor 4.7k 0.25W (for battery monitoring voltage divider)	Ebay/Aliexpress	1	0.10 €	0.04 €	0.15 €
Resistor 10k 0.25W (for battery monitoring voltage divider)	Ebay/Aliexpress	1	0.10 €	0.04 €	0.15 €
Toggle switch	Ebay/Aliexpress/Amazon	1	1.00 €	0.00 €	1.00 €
350 mAh Lipo Battery 2s (41 mm x 21 mm x 16 mm - Zippy for ex.)	Hobbyking/eBay/Amazon	1	5.00 €	0.00 €	5.00 €
Remote LCD, electronics parts (base version)					
1602 LCD module 5V	Ebay/Aliexpress	1	3.75 €	0.00 €	3.75 €
Arduino pro 5V	Ebay/Aliexpress	1	2.30 €	0.00 €	2.30 €
R220 0.25W resistor	Ebay/Aliexpress	1	0.10 €	0.04 €	0.15 €
10uF capacitor (option 1, for software LCD contrast adjustment)	Ebay/Aliexpress	1	1.05 €	0.25 €	1.30 €
R680 0.25W resistor (option 1, for software LCD contrast adjustment)	Ebay/Aliexpress	1	0.10 €	0.04 €	0.15 €
10k trim pot (option 2, for manual LCD contrast adjustment)	Ebay/Aliexpress	1			0.00 €
30cm servo extension wire	Ebay/Aliexpress	1			0.00 €
Remote LCD, electronics parts (OLED I2C Version)					
OLED 0.96" I2C module 5V	Ebay/Aliexpress	1	2.45 €	0.00 €	2.45 €
4 wires connector	Ebay/Aliexpress	1	0.80 €	0.00 €	0.80 €
Remote LCD, electronics parts (1602 I2C Version)					
1602 I2C module 5V	Ebay/Aliexpress	1	2.08 €	0.00 €	2.08 €
4 wires connector	Ebay/Aliexpress	1	0.80 €	0.00 €	0.80 €

Estimated price for PLA and 3D printer retry

1.42 using seed fusion for 10 PCB

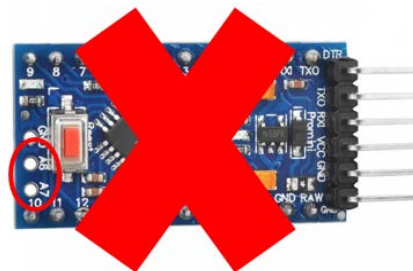
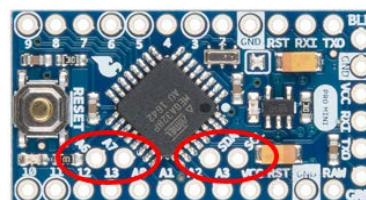
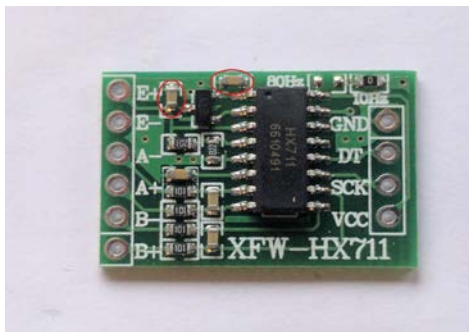
BULTIN Led used

not necessary

Base version	44.15 €
Oled I2C Version	39.76 €
1602 I2C Version	39.39 €

Note 1: For firmware upload an USB serial programmer is also required. It should look like this: <https://www.adafruit.com/product/284>

Note 2: A little warning; There are some badly designed HX711 modules out there. Two of the capacitors should be 10uF and is usually visibly larger than the other caps. The board pictured below has only 0.1uF caps and will give very noisy readings.



Note 3: A little warning; Arduino Pro Mini 5V comes in two versions. A4, A5, A6, A7 pinout must be the same as the first board pictured below to be compatible with the proposed PCB. If you can't find an arduino of this type, wrap the A7 pin of the arduino board on the A7 pin of the PCB.