

Class 1MCT3
 First Name: Lucas
 Name Dewil
 Project Name : Smart Fridge
 Assembly Revision : 16/06/2022
 Approval Date : 20-Jun-22
 Part Count : 17
 Total Cost : €193



Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost	
1	16X2 LCD DISPLAY	LCD Display	1	1		https://www.kiwi-electronics.nl/nl/16x2-lcd-display-extras-wit-op-blauw-2287?search=lcd%20display	1	€ 11,95	€ 11,95	€ 11,95	
2	3X4 FLEXIBEL MATRIX KEYPAD	For user input on the hardware	1	1		https://www.kiwi-electronics.nl/nl/3x4-flexibel-matrix-keypad-605?search=keypad	1	€ 4,50	€ 4,50	€ 4,50	
3	WoneNice USB Laser Barcode Scanner Wired Handheld Bar Code Scanner Reader Black	To insert and remove products via their bar code	1	1		Amazon.com : WoneNice USB Laser Barcode Scanner Wired Handheld Bar Code Scanner Reader Black	1	€ 20,39	€ 20,39	€ 20,39	
4	RASPBERRY PI 4 MODEL B - 4GB	Main Controller	1	1		https://www.kiwi-electronics.nl/en/raspberry-pi-4-model-b-4gb-4268?src=raspberrypi_raspberry-pi-4gb-765756931182.html?utm_source=RaspberryPi&utm_r	1	€ 63,95	€ 63,95	€ 63,95	
5	I2C OLED DISPLAY	Displays temperature & number of products present & logo	1	1		https://www.velleman.eu/products/view/?id=460516	1	€ 7,49	€ 7,49	€ 7,49	
6	Waterproof 1-wire temperature sensor (ds18b20)	To measure the temperature	1	1		com/en/high-temp-waterproof-ds18b20-digital-temperature-sensor-resistor-1431?seas://www.gottron.be/waterproof-ds18b20-digital-temperature-sensor-extras-1	1	14,95	14,95	14,95	
7	T-Type GPIO Adapter	To make it easier to use the pins of a raspberry pi	1	1		raspberrypi-3-or-2-Model-B-or-B+-or-A+-or-Zero-p-1045811.html?imageAb=2&mmds=search&cur_warehouse=CN&akmClientCountry=BE&akmClientCountry:	1	€ 8,39	€ 8,39	€ 8,39	
8	Magnetic closure	To attach the housing	1	2		https://www.supermagnete.be/magneetsluiting?bing_be_dut_magneetsluiting&msclid=3d0f990bc8b11d4eae34fba05609fca8&utm_source=bing&utm_medium=cpc&utm_campaign=bing_be_dut&utm_term=magneetsluiting&utm_content=be_dut_magneetsluiting	2	€ 2,19	€ 4,38	€ 4,38	
9	Aluminium	To make the housing with	1	1		iauxquincaillerie/profil%C3%A9s-1%C3%B4les/1%C3%B4les-1%C3%B4le-lisse-gah-a-ijzershop.nl/aluminium-plaat/951-3973-plaat-aluminium-1000-x-500-x-10m	1	€ 32,99	€ 32,99	€ 32,99	
10	Metal screw + nut 3x30	For bonding components	1	1		GAMMA metaalschroef met moer M3x30 mm cilinderkop verzinkt 15 stuks bouten-m-elyz-200-stuks-8712811107749.html?utm_source=bing&utm_medium=cpc	15	€ 2,39	€ 2,39	€ 2,39	
11	Blind rivets	To completely secure the housing	1	1		GAMMA blindlinknagel 3x10 mm nagels-spijkers GAMMA.be	100	€ 5,99	€ 5,99	€ 5,99	
12	E3-SERIES RESISTOR SET - 480 PCS - 10E TO 1M	Basic component	1	1		https://www.whadda.com/product/e3-series-resistor-set-480-pcs-10e-to-1m-k-res-e3/	480	€ 11,95	€ 11,95	€ 11,95	
13	Wiring cables	wiring	1	1		https://www.conrad.be/nl/p/renkforce-ikmm403-jumperkabel-arduino-banana-pi-raspberrypi-3-jumperkabel-arduino-banana-pi-raspberry-pi-40x-draadbrug-stekker-40	40	€ 3,04	€ 3,04	€ 3,04	
14	Breadboard	For the wiring of the sensors and the modules	1	2		830-punt Breadboard - Wit (kiwi-electronics.com)	1	€ 6,95	€ 13,90	€ 13,90	
15	AZDelivery MB102 Breadboard power adapter 3.3V/5V	For making the wiring easier	1	1		https://www.hobbyelectronica.nl/product/breadboard-voedingsmodule-mb102-3-3-5v-us-voedingsadapter-Voedingsmodule-3.3V/5V-compatibel-met-Arduino-Inclusief-E-Book!-Amazon	1	€ 1,95	€ 1,95	€ 1,95	
Total									17	€ 193,26	€ 193,26