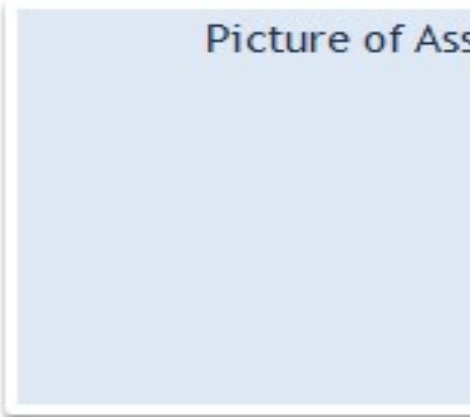


Class	1MCT-2
First Name:	Warre
Name	Sercu
Project Name :	smart fridge
Assembly Revision :	1
Approval Date :	10-Mar-22
Part Count :	33
Total Cost :	€330



Part #	Part Name	Description	Revision	Qty	Supplier
1	raspberry pi 4	Raspberry pi to control the entire system		1	<a href="https://www.unikits.be/product/iot-raspberry-pi-4">s://www.unikits.be/product/iot-raspberry-pi-</a>
2	raspberry Pi T-cobbler	Easy wiring with Raspberry Pi		1	<a href="https://www.unikits.be/product/howest-mct-ardu">s://www.unikits.be/product/howest-mct-ardu</a>
3	RFID-sensor	Rfid-Sensor		1	<a href="https://www.unikits.be/product/howest-mct-ardu">s://www.unikits.be/product/howest-mct-ardu</a>
4	ds18b20	Temperature Sensor		1	<a href="https://www.unikits.be/product/howest-mct-ardu">://www.unikits.be/product/howest-mct-ardu</a>
5	Solenoid 12V Deurslot   Arduinc	lock from the fridge		1	<a href="https://nl/p/otronic-solenoid-12v-deurslot-arduino">/nl/p/otronic-solenoid-12v-deurslot-arduino</a>

6	SRD-05VDC-SL-C relais	5V relaismodule WPM406	1	<a href="https://www.unikits.be/product/howest-mct-ardu">s://www.unikits.be/product/howest-mct-ardu</a>
7	raspberry pi 7" touchscreen	display	1	<a href="https://www.raspberrypi.com/products/official-raspberry-pi-7-touchs">.com/products/official-raspberry-pi-7-touchs</a>
8	adapter board	powering the display	1	<a href="https://www.raspberrypi.com/products/official-raspberry-pi-7-touchs">.com/products/official-raspberry-pi-7-touchs</a>
9	reed sensor	magnetic contact	1	<a href="https://www.digikey.com/product-detail/en/9145-010/p/13756644?trackQuery=cat-DN">9145-010/p/13756644?trackQuery=cat-DN</a>
10	prototypingboard 210x150mm	cutted to 65x150mm for conecting evertying	1	<a href="https://www.digikey.com/product-detail/en/d-210x150mm-rnd-components-rnd-255-0C">d-210x150mm-rnd-components-rnd-255-0C</a>
11	DC-Fan 12 40x40x10	for cooling the case	1	<a href="https://www.digikey.com/product-detail/en/101s1-1000u-999/p/30129654?trackQuery">101s1-1000u-999/p/30129654?trackQuery</a>
12	ac dc power converter	used to power the fan and the lock	1	<a href="https://www.digikey.com/product-detail/en/ustrial-75w-12v-6a-xp-power-lcs75us12/p/3">ustrial-75w-12v-6a-xp-power-lcs75us12/p/3</a>
13	spacer bolt 12mm 5mm	used to higher the prototyping plate	12	<a href="https://www.digikey.com/product-detail/en/plated-brass-bourqui-jean-99130-50120-c">plated-brass-bourqui-jean-99130-50120-c</a>
14	cable glad set	feedtrough for cables	5	<a href="https://www.digikey.com/product-detail/en/ride-black-alpha-wire-pmc12-bk080/p/3011">ride-black-alpha-wire-pmc12-bk080/p/3011</a>
15	panel feed trough usb-c	to power the pi	1	<a href="https://www.digikey.com/product-detail/en/b-socket-usb-socket-cliff-cp30201x/p/3021">b-socket-usb-socket-cliff-cp30201x/p/3021</a>

16	olid Wire PVC 0.2mm <sup>2</sup> Multicolour	used to solder	1	<a href="https://www.velleman.nl/products/view/id/15550312?trk=refinement">multicolour-velleman-mowm/p/15550312?tra</a>
17	USB Cable USB-C Plug	powering the pi	1	<a href="https://www.velleman.nl/products/view/id/301310?trk=refinement">1m-usb-black-nedis-ccgp60700bk10/p/3013</a>
18	Metal Enclosure 250.2x250.2x100.5mm	cover	1	<a href="https://www.velleman.nl/products/view/id/45500?trk=refinement">ninium-alloy-black-rnd-components-rnd-455</a>
<b>Total</b>			<b>33</b>	



(picture can only be added with END delivery of project!)

also available from	Units	Unit Cost	Max Cost	Real Cost
<a href="#">3063&amp;hvpos=&amp;hvnetw=g&amp;hvra</a>	1	\$ 95.00	€ 95.00	
<a href="#">selaar.eu/Store/raspberry-pi-4(</a>	1	\$ 4.95	€ 4.95	
<a href="#">did=430579159351&amp;hvpos=&amp;t</a>	1	\$ 5.99	€ 5.99	
<a href="#">om/web/p/temperature-humidit</a>	10	\$ 1.53	€ 1.53	
<a href="#">Qjwz7uRBhDRARIsAFqjulng2</a>	1	\$ 15.99	€ 15.99	

<a href="#">/z7uRBhDRARIsAFqjulm9fLoE</a>	1	\$ 1.29	€ 1.29
<a href="#">ctor.com/official-7-touchscreen-</a>	1	\$ 60.00	€ 60.00
<a href="#">ctor.com/official-7-touchscreen-</a>	1		€ -
<a href="#">/AV_PL_130602&amp;pos=1&amp;origP</a>	1	\$ 3.71	€ 3.71
<a href="#">0019/p/30115117?queryFromS</a>	1	\$ 7.81	€ 7.81
<a href="#">/r=DC-Fan+12V+40x40x10&amp;pos</a>	1	\$ 3.55	€ 3.55
<a href="#">0218745?track=true&amp;no-cache</a>	1	\$ 16.89	€ 16.89
<a href="#">ism3050x12di/p/14801235?qu</a>	1	\$ 0.66	€ 7.96
<a href="#">3355?track=true&amp;no-cache=tru</a>	1	\$ 1.96	€ 9.80
<a href="#">5674?track=true&amp;no-cache=tru</a>	1	\$ 11.76	€ 11.76

[ack=true&no-cache=true&mark](#) 1 \$ 21.83 € 21.83

[31413?track=true&no-cache=tr](#) 1 \$ 13.70 € 13.70

[5-00763/p/30096081?track=tru](#) 1 \$ 47.76 € 47.76

**€ 329.52**