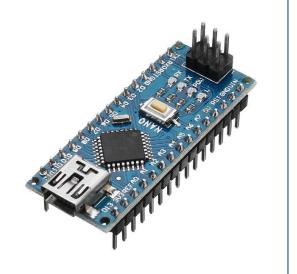
Arduino Nano (you can find information about this device easily)



1602 LCD display

16 characters 2 lines



Spec:

https://www.amazon.co.uk/AZDelivery-HD44780-Display-Characters-including/dp/B08216LXVQ

TDA2822 amplifier (Surface mount device)



TDA2822

(to mount on a breakout board for easy handling)

Breakout board (to be given, you need to do the soldering work)



Orientation

Top view & design

4-pin straight pin header (to be given to solder on each side of the breakout board)

Veroboard (Single-sided Stripboard)
It should be large enough for your project. You can cut to the size you want. If you prefer to use dotted veroboard instead, please check with lab officer.



KY-040 Rotary Encoder

Spec:

https://uk.rs-online.com/web/p/stripboards/2065841/

Spec:

https://www.amazon.co.uk/DollaTek-KY-040-Encoder-Development-

Arduino/dp/B07DK7QRLJ

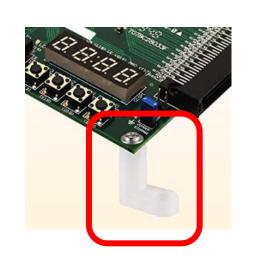
Circuit Board Stands L-Shape



Spec:

https://www.amazon.co.uk/sourcingmap-Insulated-Mounting-Supporting/dp/B09DYJ1D4B

Please request



FM chip



Spec:

https://www.mouser.co.uk/ProductDetail/

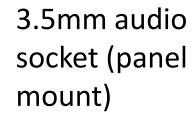
SparkFun/BOB-

11083?qs=WyAARYrbSnb3J%2FPLD8%2F%

2FpQ%3D%3D









Note: Available in the lab (self service). **Use 1 socket** for both audio & antenna, you need to find out how to wire it to serve both purposes

Speaker (1W 8 Ohm)

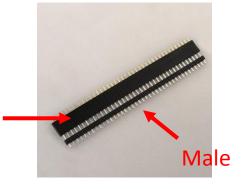


Spec:

https://uk.rs-online.com/web/p/speaker-drivers/6284715

Note: **use 1 speaker** (either left or right channel), as it can be difficult to fit 2 speakers. Please request if you really want 2 speakers & you must deliver.





Spec:

https://www.amazon.co.uk/Headers-Breakaway-Connector-Arduino-Prototype/dp/B07CC4V9ZY

Note: Please request the amount you need based on your design.

Female

ON/OFF Switch (panel mount)

Note: Available in the lab (self service)



Push buttons (panel mount)

Image Not Available

Note: Available in the lab (self service)

Screws & Nuts

Image Not Available

Note: Available in the lab (self service)

Enclosure Options

DIY using acrylic sheet



Plastic box (Front panel = 75mmx245mm)



3D printed enclosure

Please ask John

Note: Available in the lab. Please ask

PCF8563 Real Time Clock Module

Spec:

https://www.amazon.co.uk/AJMAKER-

Real-time-clock-RTC-

PCF8563/dp/B0CKLBQ8TN/ref=sr 1 6



HC-SR04 Distance Sensor



Spec:

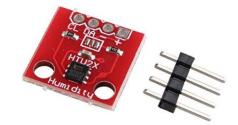
https://www.amazon.co.uk/Ultrasonic-Distance-Mounting-Compatible-Rapsberry/dp/B092MB14PH

Infrared Receiver Module



Spec:

https://www.amazon.co.uk/UMTMedia %C2%AE-Infrared-Transmitter-Receiver-Raspberry/dp/B09989KDJJ/ref=sr 1 37 HTU21D Humidity and Temperature Sensor (breakout board may vary)



Spec:

https://www.amazon.co.uk/AZDelive ry-Humidity-Temperature-Interface-Raspberry/dp/B07VF8Q7G5?th=1 USB mini cable (for development)

