

Project:

Matrix+ controller & 3 panels

Issued: 29/10/2023

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
1N4006 Rectifier Diode 800V	1	£0.04	£0.04	Amazon	Sunk cost - cost per cm	Link
2mm x 10mm Steel Pozi Screws - silver	6	£0.03	£0.16	ebay	Can be re-used on other projects	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost	Link
Display 0.96inch white 64x128 OLED I2C, 27mm x 27mm board	1	£3.60	£3.60	Amazon	Can be re-used on other projects	Link
ESP32 DevKitC NodeMCU ESP-WROOM-32S	1	£4.48	£4.48	AliExpress	Can be re-used on other projects	Link
WS2812B 16x16 panel flexible matrix 5v	3	£6.39	£19.17	AliExpress	Can be re-used on other projects	Link
WS2812B RGB LED chips, white 5050SMD	2	£0.15	£0.30	Amazon	Sunk cost	Link
Rotary encoder 360 Deg push switch EC11	1	£1.60	£1.60	Amazon	Can be re-used on other projects	Link
BTF-LIGHTING JST SM 3 Pin Connectors for WS2812B	1	£0.99	£0.99	Amazon	Can be re-used on other projects	Link
Micro SD card module shield	1	£1.00	£1.00	Amazon	Can be re-used on other projects	Link
8GB micro-SD memory card	1	£3.75	£3.75	Amazon	Can be re-used on other projects	Link
4 Pin 5.08mm Pitch Male Female PCB Screw Terminal Block, sourcing map	2	£1.70	£3.40	Amazon	Sunk cost - multi-buy may be required	Link
5V Power Supply 3A 15W Universal Power Adapter	1	£11.99	£11.99	Amazon	Can be re-used on other projects	Link
M3 x 30mm Nylon C-Sunk screws	1	£0.07	£0.07	RS Components	Can be re-used on other projects	Link
Pin Header Strips Female 1 x 40	1	£0.90	£0.90	ebay	Sunk cost	Link
Pin Header Strips Male 1 x 40	2	£0.80	£1.60	ebay	Sunk cost	Link
1.75mm PLA Filament 1kg reel	0.1	£24.00	£2.40	3DPrintz	Sunk cost	
2-part epoxy glue 30ml tubes	0.2	£3.90	£0.78	ScrewFix	Sunk cost	Link
		Total:	£55.80			
		Optional:	£17.19		Can be re-used on other projects	
		Re-use:	£32.10		Can be re-used on other projects	
		Sunk:	£6.51		Sunk cost	

Notes:

Prices are indicative. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc
 Consumeables like solder, flux, hook-up wire, etc are not included here, but are needed.
 3-D printer is an estimate, but 1kg reel will do the job.
 2-part epoxy resin is needed, but no included in the above list