Tromsø 9/4-2018

1 pcs. Optical rotary400 or 600 Pulse Per revolution. Ebay:

https://www.ebay.com/itm/Rotary-Encoder-400P-R-6mm-Incremental-Optical-Shaft-Working-Measurement-5-24V-PK/222637375043?epid=1387327464&hash=item33d638be43:g:k-oAAOSwPyBZsRe8encoder,

This is surplus equipment of very high quality. You can get them from many sources, most of them are brand new and must have costed 5- 10 times as much originally. They have been used in NCR machines.

The PCB is can also take an encoder from the HRPG-ASCA#54F (or 19F) series but it is not so good.

4 pcs. Dual Concentric Encoders ALPS PN:Farnell: EC11EBB24C.03 Also from Aliexpress:

https://www.aliexpress.com/item/2PCS-LOT-ALPS-dual-EC11EBB24C03-dual-encoder-with-switch-30-positioning-number-15-pulse-point-handle/32830562377.html?spm=a2g0s.9042311.0.0.lLu1Nx

Display: Alt. 1: Nextion 3,2 inch. Alt.2: Nextion 4,3 inch.   From Aliexpress:

Alt.1:

https://www.aliexpress.com/item/English-Version-Nextion-3-2-HMI-Intelligent-Smart-USART-UART-Serial-Touch-TFT-LCD-Module-Display/32824595614.html?spm=a2g0s.9042311.0.0.lLu1Nx

ALT.2:

https://www.aliexpress.com/item/4-3-Nextion-HMI-Intelligent-Smart-USART-UART-Serial-Touch-TFT-LCD-Module-Display-Panel-For/32679792756.html?spm=a2g0s.9042311.0.0.lLu1Nx

1 pcs. Arduino Due. Original from Farnell or from Aliexpress:

https://www.aliexpress.com/item/NEW-Official-Compatible-DUE-R3-Board-SAM3X8E-32-bit-ARM-Cortex-M3-Mega2560-R3-Duemilanove-2013/32848139666.html?spm=a2g0s.9042311.0.0.lLu1Nx

6 pcs. 12x12 mm tactile switches with LEDS: DigiKey: Spark Fun Electronics PN:COM-10439
Aliexpress:

https://www.aliexpress.com/item/20pcs-lot-12-12-7mm-DIP-Tactile-Push-Button-with-Light-Tact-Switches-12x12mm-Red-Yellow/32849993671.html?spm=a2g0s.9042311.0.0.lLu1Nx

11 pcs. 12x12 mm tactile switches . Digikey: Omron PN:SW414-ND.

Aliexpress:

https://www.aliexpress.com/item/20PCS-LOT-12x12x7-3-mm-Tactile-Switches-Yellow-Square-Push-Button-Tact-Switch-12-12-7/32699776287.html?spm=a2g0s.9042311.0.0.quBQ9F

12 pcs.   Capacitors 100n/50V Size 0805 (C1-C3, C5-C13)

1 Pc.   Capacitor 22u/25V (C4)

1 Diode   SK54 or equivalent.

1 pc. Header, male, 2x18 (J1)

5 pcs Header, male, 1x8 (J3, J4, J5, J6, J7)

1 pc.   Header, male, 1x10. (J2) Remarks: J1-J7 must be installed on the bottom side. The markings on the PCB is wrong.

1 pc. USB A connector PN: SAM10861-ND (DigiKey) Or equivalent.(Mouser:571-292303-2)

1 ps. USB B connector PN: USB-B1HSB6. Or equivalent. (Mouser: 490-UJ2-BH-1-TH)

2 pcs. Ferrite beads PN 2743021447 (Mouser)

1 pc. 2A fuse size 1210.

7 pcs. resistors 330 Ohm, size 0805 (R1, R2, R3, R4, R5, R45, R46)

37 pcs resistors, 10KOhm, size 0805 (R6-R40, R44, R47)

1 pc. Power connector: PN:Mouser 806-KLDX-0202-A

1 pc. 2,5 mm connector:PN: Mouser: 490-MJ1.2502

1 pc. Hammond 1455Q2201BK