

INVENTORY APPLICATION

LOGISTICS, ORDERS, PROJECTS

Inventory

Inventory Resources Tools


Components Orders Projects

Items Sets

- Circuit Protection
- Connectors
- Electromechanical
- Embedded Solutions
- Opto-electronics
- Passive Components
- Power
- Semiconductors
 - Embedded Processors & Controllers
 - Amplifier IC
 - Audio ICs
 - RF ICs
 - Interface ICs
 - Power Management ICs
 - Digital Potentiometer ICs
 - Discrete Semiconductors
 - Driver ICs
 - Data Converter ICs
 - Clock & Timer
 - Logic ICs
 - Counter ICs
 - Switch IC
 - Sensors & Transducer
 - Test & Measurement
 - Thermal Management
 - Tools & Supplies
 - Wire & Cable

| Name | Location | Description | Manufacturer |
|--------------|----------|---|---------------------|
| UA741CP | IC/R/C/0 | Op Amps GP Op Amp | Texas Instruments |
| TL071CP | IC/R/C/0 | JFET Input Low Noise | Texas Instruments |
| TLC272CP | IC/R/C/2 | Operational Amplifier, Dual, 2 Amplifier, 1.3 MHz, 3.6 V/μs, 3V to 16V, DIP, 8 Pins | Texas Instruments |
| MCP6422-E/SN | IC/R/C/1 | Operational Amplifiers - Op Amps | Microchip |
| TLC272CPWR | IC/R/C/2 | Precision Amplifiers Dual S-Sply Op Amp | Texas Instruments |
| CA3140AEZ | IC/R/C/0 | Operational Amplifiers - Op Amps OPAMP 4.5MHz LWBias 0.04nA | InterSil |
| TS922N | IC/R/C/1 | Operational Amplifiers - Op Amps Dual Rail-to-Rail | ST Microelectronics |
| OP27GPZ | IC/R/C/2 | Precision Amplifiers LOW-NOISE PREC IC 2.8V/μs | Analog Devices |
| TL082CP | IC/R/C/2 | Operational Amplifiers - Dual Op Amps JFET Input Low Noise | Texas Instruments |
| TL084ACN | IC/R/C/3 | Operational Amplifiers - Quad Op Amps JFET Input | Texas Instruments |
| TLC272CPSR | IC/R/C/2 | Precision Amplifiers Dual S-Sply Op Amp | Texas Instruments |
| TLC272CDR | IC/R/C/2 | Precision Amplifiers Dual S-Sply Op Amp | Texas Instruments |
| INA128PA | IC/R/C/1 | Instrumentation Amplifier, 5 μA, μMAX, 8 Pins, -40 °C, 125 °C | Texas Instruments |
| MAX4080TAUA+ | IC/R/C/4 | | Maxim Integrated |

OpAmp 2



TLC272CDR

Precision Amplifiers Dual Prec Op Amp

★★★★★

Semiconductors

Amplifier IC

Operational Amplifiers - Op Amps

Texas Instruments

SOIC - Small outline (SOP)

IC/R/C/2

Nice:

- 1. Single supply
- 2. Rail to rail
- 3. Very precise

Use this one! (not TLC272CPSR)

ICRack1

| | | | | |
|----|----|----|----|----|
| A0 | A1 | A2 | A3 | A4 |
| B0 | B1 | B2 | B3 | B4 |
| C0 | C1 | C2 | C3 | C4 |
| D0 | D1 | D2 | D3 | D4 |
| E0 | E1 | E2 | E3 | E4 |
| F0 | F1 | F2 | F3 | F4 |
| G0 | G1 | G2 | G3 | G4 |
| H0 | H1 | H2 | H3 | H4 |
| I0 | I1 | I2 | | |
| J | | | | |

14 63.52

Connected to inventory as remote at 192.168.0.162

DESCRIPTION

The application is created to keep an inventory of all the components of my personal stock. It can furthermore be used to create orders, and to keep track of PCB projects where components are used. The inventory is kept up-to-date by combining the input flow (manual or from orders), and the output flow of articles placed on PCBs.

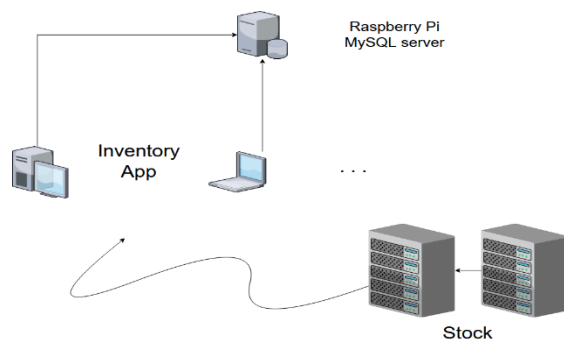
STATE

The application works and is used frequently. Using the app for finding components, ordering, and keeping track of PCBs has saved me a lot of time.

Next steps:

- Orders for PCBs is not fully operational.
- Projects can read KiCad PCBs but linking with known components can be better.
- Connect with 'LightningStock' project.

DETAILS



The application connects with an MySQL database hosted on a Raspberry Pi 3.

Data is fetched and stored asynchronously to the database. This allows the app to run on different clients.

The application is written in Java using IntelliJ IDEA. The GUI is designed with the Swing library.

The InventoryApp contains three main panels:

1. *Components*: overview of all the components, categorized by their type. The location of the component can be shown by clicking the location cell.
2. *Orders*: categorized into 'Planned', 'Ordered' and 'Received'. The app is able to create order files which can be imported immediately into the order page of a distributor.
3. *Projects*: keeps code and PCBs per project. Both can be opened from within the application. PCBs can be imported and linked with the known component database.

MISC

PERIOD

2017 - 2018

GITHUB

<https://github.com/WouterThys/InventoryApp>

Inventory Resources Tools

Components Orders Projects

Received
2015
2016
2017
2018
Ordered
Planned

| Distributor | Name | Modified | Ordered | Received |
|---------------|--------------------|------------|------------|------------|
| Euro Circuits | SimpleSupply | 15/04/2018 | 31/01/2018 | 15/04/2018 |
| Euro Circuits | iCab1 | 18/04/2018 | 18/04/2018 | 18/04/2018 |
| Mouser | Power Controller | 21/04/2018 | 14/04/2018 | 21/04/2018 |
| Mouser | Refill5 | 27/04/2018 | 24/04/2018 | 27/04/2018 |
| Euro Circuits | iCab2 | 01/05/2018 | 15/04/2018 | 01/05/2018 |
| Mouser | Refill6 | 15/04/2019 | 30/05/2018 | 30/05/2018 |
| Mouser | PSandLS | 20/06/2018 | 12/06/2018 | 20/06/2018 |
| Euro Circuits | PS Main Controller | 29/07/2018 | 07/07/2018 | 29/07/2018 |
| Mouser | ESP8266 | 02/10/2018 | 02/10/2018 | 02/10/2018 |

| # | Name | Reference | Price | Total |
|-----|----------------------|---------------------|-------|--------|
| 5 | PIC18F2550-I/P | 579-PIC18F2550-I... | €4.87 | €24.35 |
| 10 | 1-2199298-9 | 571-1-2199298-9 | €0.67 | €6.7 |
| 100 | SMD R set 0603 - ... | 594-MCT06030C1... | €0.09 | €8.5 |
| 10 | DSPIC33EP32GP... | 579-PC33EP32G... | €2.38 | €23.8 |
| 20 | CRCW080510R0... | 71-CRCW080510... | €0.22 | €4.42 |

PIC18

PIC18F2550-I/P

8-bit Microcontrollers - MCU 32kBF 2048RM FSUSB2

PDIP - ThroughHole

IcR/A/2

5

€4.87

579-PIC18F2550-I/SP

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Inventory Resources Tools

Components Orders Projects

Supply

Code Pcbns Other

SupplyMain Digital.pro

SupplyMain Digital.pro

Simple Supply.pro

SupplyMain Digital.pro

Main Controller

| Name | Order | Created |
|------------------------|-------------------|------------|
| SupplyMainDigital.pro0 | SupplyMainDigital | 15/04/2018 |
| SupplyMainDigital.pro1 | SupplyMainDigital | 15/04/2018 |
| SupplyMainDigital.pro2 | SupplyMainDigital | 15/04/2018 |

KiCad

15/04/2018 13:26

SupplyMainDigital.pro

Version 1

Pcb items Created

Connected to inventory as remote at 192.168.0.162