

Based on PVV's Galaksija Plus clone from 2017. Mods:

- integrated audio interface
- address decoder with ATF16V8B
- integrated micro SD socket with level shifters
- NMI reset circuit
- hybrid TH/SMD PCB (SMD discrete components on the bottom side)
- keyboard stackable on the back side (100x300mm)

Works with the following Galaksija Plus ROM images by PVV:

- GALAXY_ROM16_v8_6.BIN (16k), alt. GALAXY_v8_6.BIN (64k)
- GALAXY_CHGRGENP.BIN (8k), alt. GALAXY_CHRGEN.BIN (64k)

Hardware memory map:

| | |
|-----------------|--|
| \$0000...\$0FFF | ROM "A" or "1" - 4 KB contains bootstrap |
| \$1000...\$1FFF | ROM "B" or "2" - 4 KB (optional) |
| \$2000...\$27FF | Keyboard and latch |
| \$2800...\$BFFF | RAM: 30 KB (\$2800...\$2BFF Video RAM) |
| \$C000...\$C7FF | RAM: 2 KB (SDOS) |
| \$C800...\$CFFF | SD interface |
| \$D000...\$DFFF | Unused, reserved |
| \$E000...\$FFFF | ROM "3" + "4": 8 KB (Graphics, SDOS etc) |

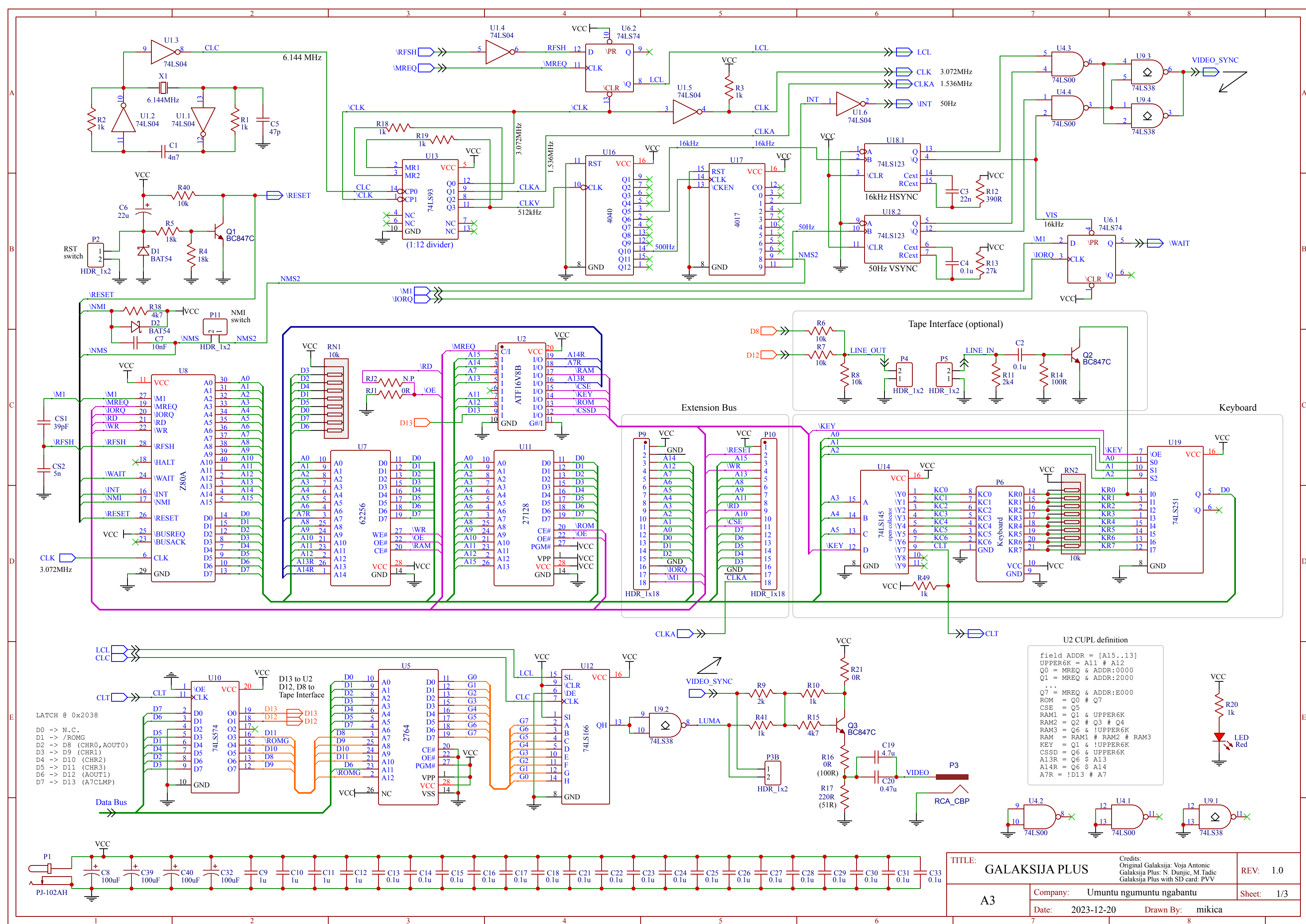
Credits:

- Voja Antonic: Galaksija (1983)
- Nenad Dunjic and Milan Tadic: Galaksija Plus mod (1985)
- PVV and Fifan: Galaksija Plus clone with SD card (2017)
- Goran Stankovic (YT2FSG): Retro Computers web page
- Retro Bertie (@MacBerti28): YouTube guide

Soldering sequence:

1. start with the SMD components on the bottom side (the SMD components are 0805+ and easy to solder)
2. solder the SMD components on the top side
3. mount the IC sockets
4. mount the rest of the components

| | | |
|---|-----------------------------------|------------------|
| TITLE: GALAKSIJA 40th Anniversary Tribute | | REV: 1.0 |
| | Company: Umuntu ngumuntu ngabantu | Sheet: 0/3 |
| | Date: 2023-12-30 | Drawn By: mikica |



40th anniversary tribute
January 2024
PCB by Mikica

