

ORD-3-rc

Giling Computer Applications

Spaxbooster and DDX Booster
with Railcom cut-out

Revised: May 7, 2013

Revision: 1.2

| Qty | Ref | Part | Order nr |
|-----|--------------|---------------------------------|----------------------------|
| 1 | R1 | 1 Kohm 0,125 Wattle | |
| 2 | R2,R3 | 10 KOhm 0,125 Watt | |
| 1 | R4 | 470 Ohm 0,125 Watt | |
| 1 | R5 | 0.22 Ohm 5 Watt | 5W AXIAL 0,22 |
| 1 | R6 | 10 KOhm 0,125 Watt | |
| 1 | R7 | 1 Kohm 0,125 Watt | |
| 1 | R8 | 1,2 Khm 0,125 Watt 1% metalfilm | |
| 1 | R9 | 560 Ohm 0,125 Watt 1% metalfilm | |
| 1 | R10 | 680 Ohm 0,125 Watt 1% metalfilm | |
| 1 | R11 | 470m Ohm 0,125 Watt | |
| 1 | R12 | 220 KOhm 0,125 Watt | |
| 1 | R14 | 100 Ohm 2 Watt | 2W DRAHT 100 |
| 1 | R15 | 680 Ohm ¼ Watt 1% metalfilm | |
| 1 | R16 | 560 Ohm ¼ Watt 1% metalfilm | |
| 1 | C1 | 220 nF MKT | MKS-2 220N |
| 2 | C2,C3 | 15-33 nF MKT | MKS-2 15N |
| 1 | C4 | ELCO 100 uF 35V radial | RAD 100/35 |
| 1 | C5 | ELCO 1000 uF 25V radial | RAD 1000/25 |
| 2 | C6,C10 | ELCO 10 uF 16V radial | RAD 10/16 |
| 2 | C9,C11 | ELCO 4.700uF 35V | RAD 4.700/35 |
| 3 | C12,c14,c15 | 100 nF ceramic 2,5 mm pitch | |
| 1 | D1 | Schottky diode | 1N5822 OR SB330 |
| 1 | D2 | Diode | 1N4003 |
| 2 | LED1, LeeED3 | LED 3mm green | LED B-3 GN |
| 1 | LED2 | LED 3mm red | LED B-3 RT |
| 1 | VR1 *) *) *) | 5 V regulator | 7805 TO220 |
| 1 | VR2 *) *) *) | 12V regulator | LM2576T-12 |
| 1 | U1 *) *) *) | Power IC | L6203 |
| 1 | U2 | processort | PIC 12F629-I/P with socket |
| 2 | U3,U4 | opto coupler | 6N137 with socket |
| 1 | U5 | opto coupler | PC817 |
| 1 | J1 | Connector | AKL230-04+AKL249-04 |
| 3 | St1,St2,St3 | RJ12 connector | MEBP 6-6s |
| 1 | CDE1 | Screw terminal | AKL086-04 |
| 1 | SW2 | dip switch 2-pole | |
| 1 | GR1 | BRIDGE 6Amp | KBU6A |
| 1 | L1 | INDUCTOR 100 uH | FED 100u |
| 1 | F1 | FUSE 1,85 Amp | PFRA185 |
| 1 | *) *) *) | Cooling | V PR127/94-M3 |
| 3 | | Clips | MC725 |
| 3 | | Fasteners | M3x8 |
| 4 | | Mounting supports | DA4-10mm |
| 4 | | Fastenersee | M4x8 |
| 1 | | PCBoard ORD-3 | |
| 1 | | Cable RJ12 + SubD9 female | |

***) *) *)Important !!!!!**

For Power IC and Regulators:

First mount cooling device with screws, then insert IC and regulators, bending wires so that they are flat to cooling, then fix clamps to hold IC's and after that solder IC's.