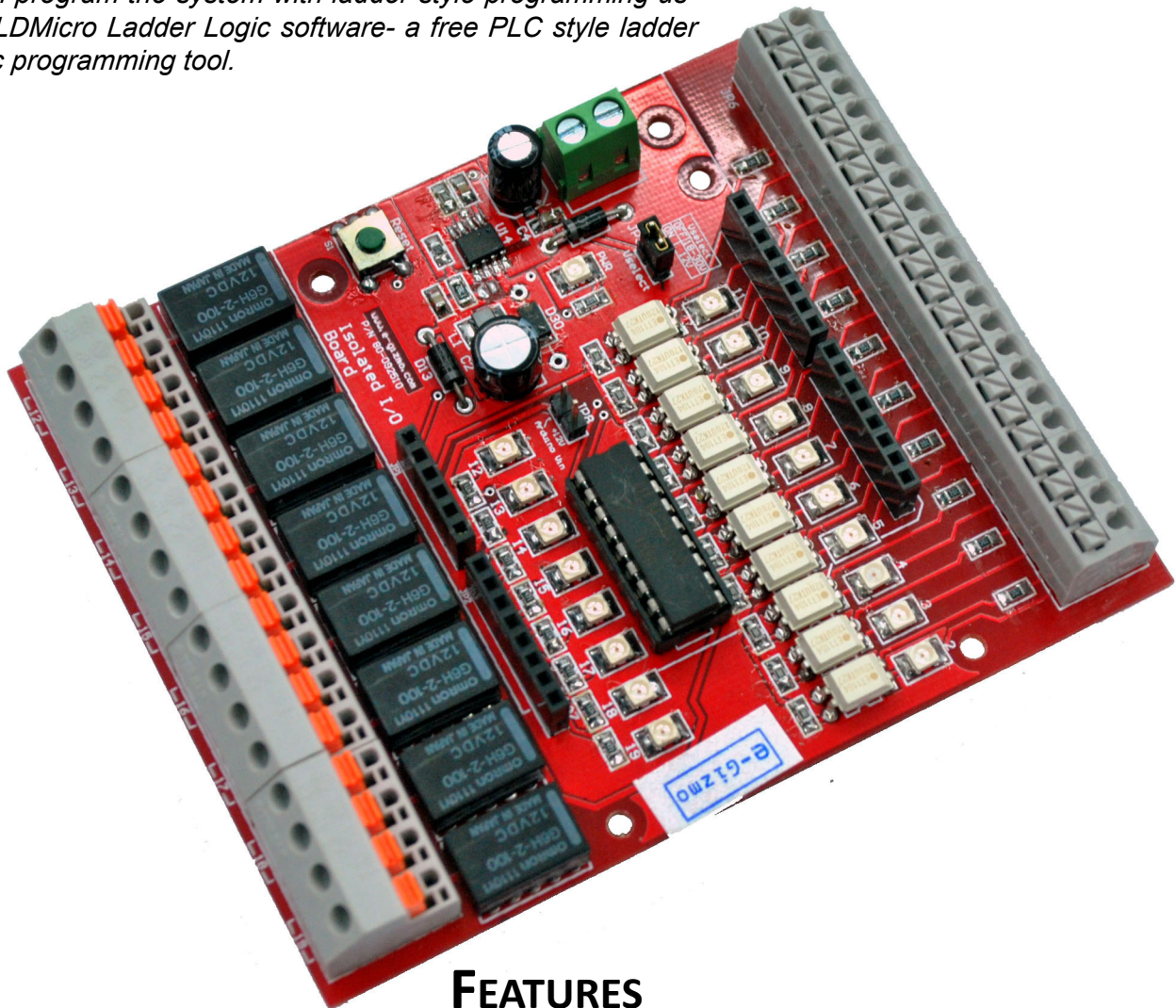

PLC Isolated I/O Shield

Hardware Manual Rev 1r0

Opto-isolated input and relay dry contact outputs for industrial strength applications. Compatible with e-Gizmo Arduino and Pinguino clones. Using an Atmega8 based controller, you can even program the system with ladder style programming using LDMicro Ladder Logic software- a free PLC style ladder logic programming tool.



FEATURES

- Opto isolated inputs and dry contact outputs for industrial strength applications
- 10 LED monitors for 10 optoisolators and 8 LED monitor for 8 12VDC Relays operation
- Compatible with Arduino and Pinguino microcontrollers
- High Current Buffer Eight darlington array IC

Major Components Presentation

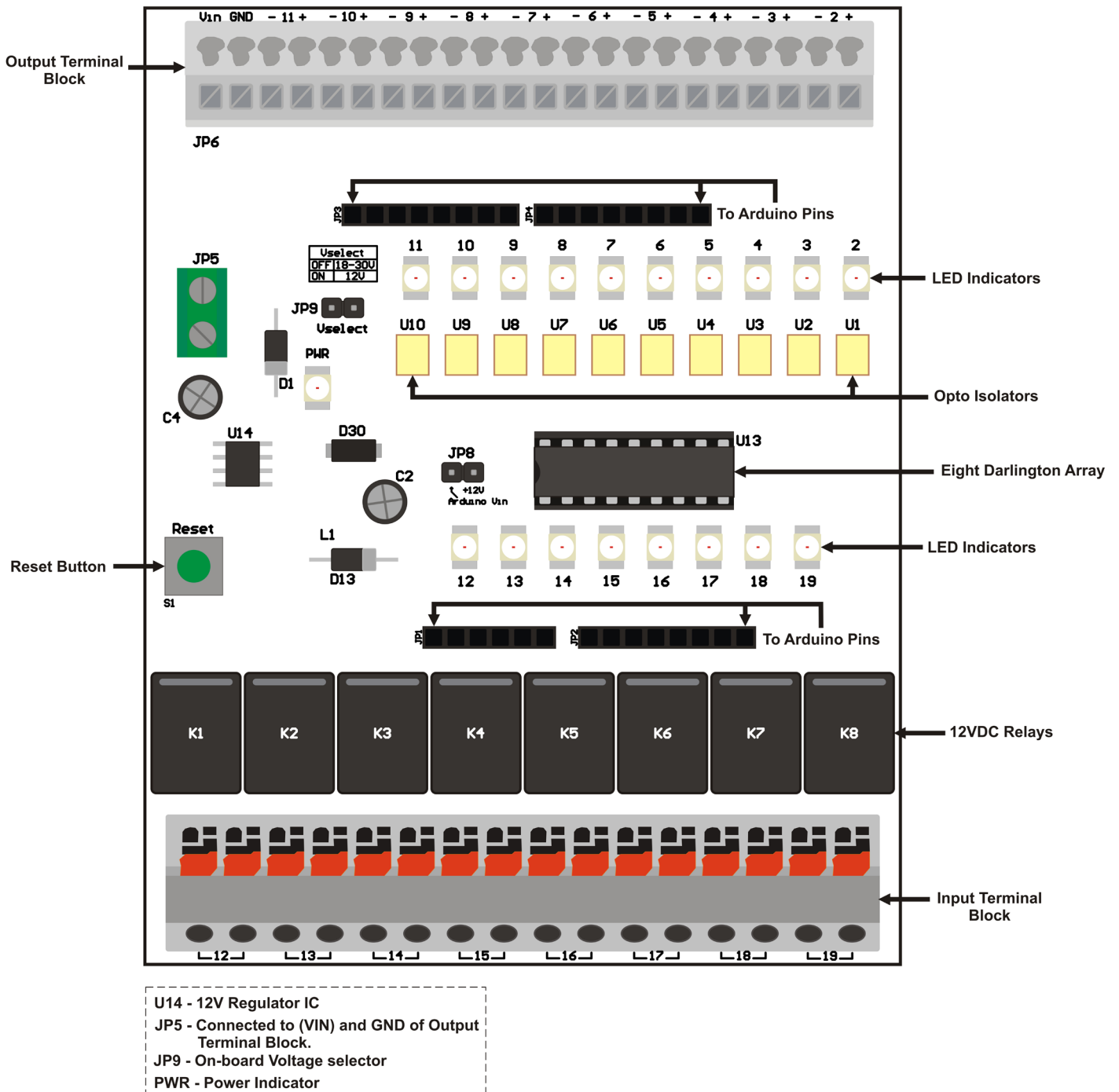


Figure 1. PLC Isolated I/O shield and its major components with details

Schematic Diagram

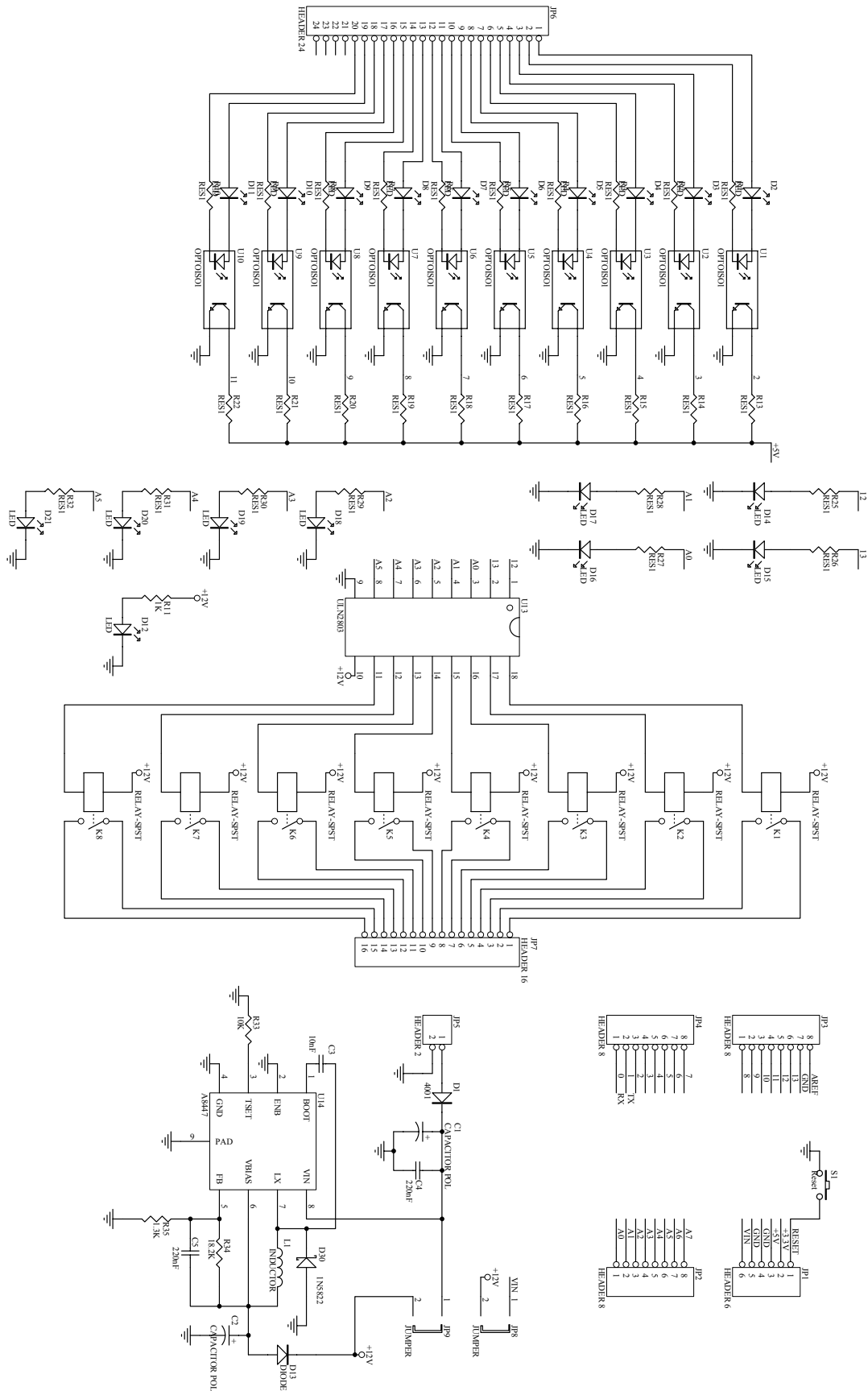


Figure 2. Schematic Diagram of PLC Isolated I/O shield

PCB Board Presentation

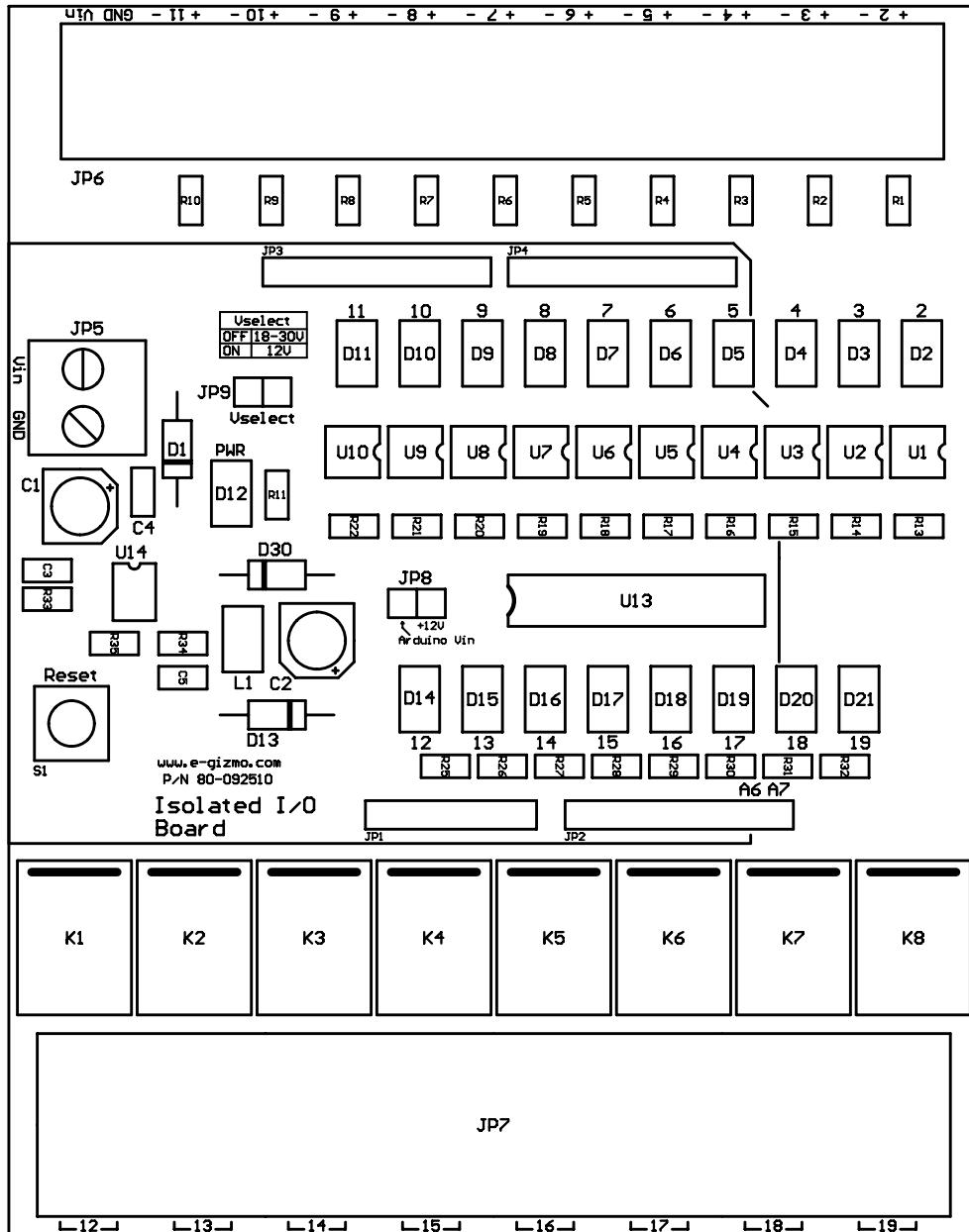


Figure 3. PLC Isolated I/O Shield PCB
(silkscreen layout)

PCB Board Presentation

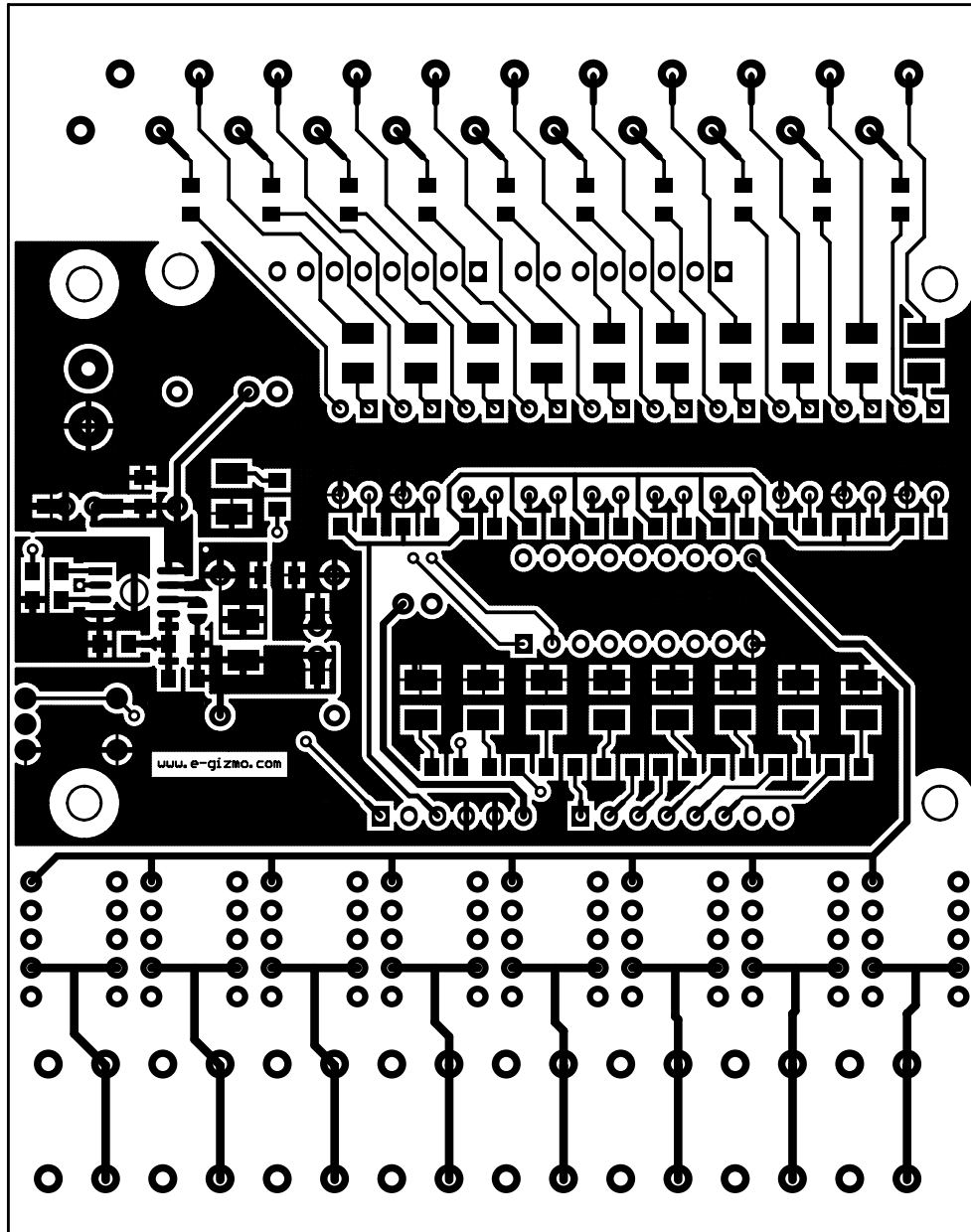


Figure 4. *PLC Isolated I/O Shield
PCB Copper Pattern (Top layer)*

PCB Board Presentation

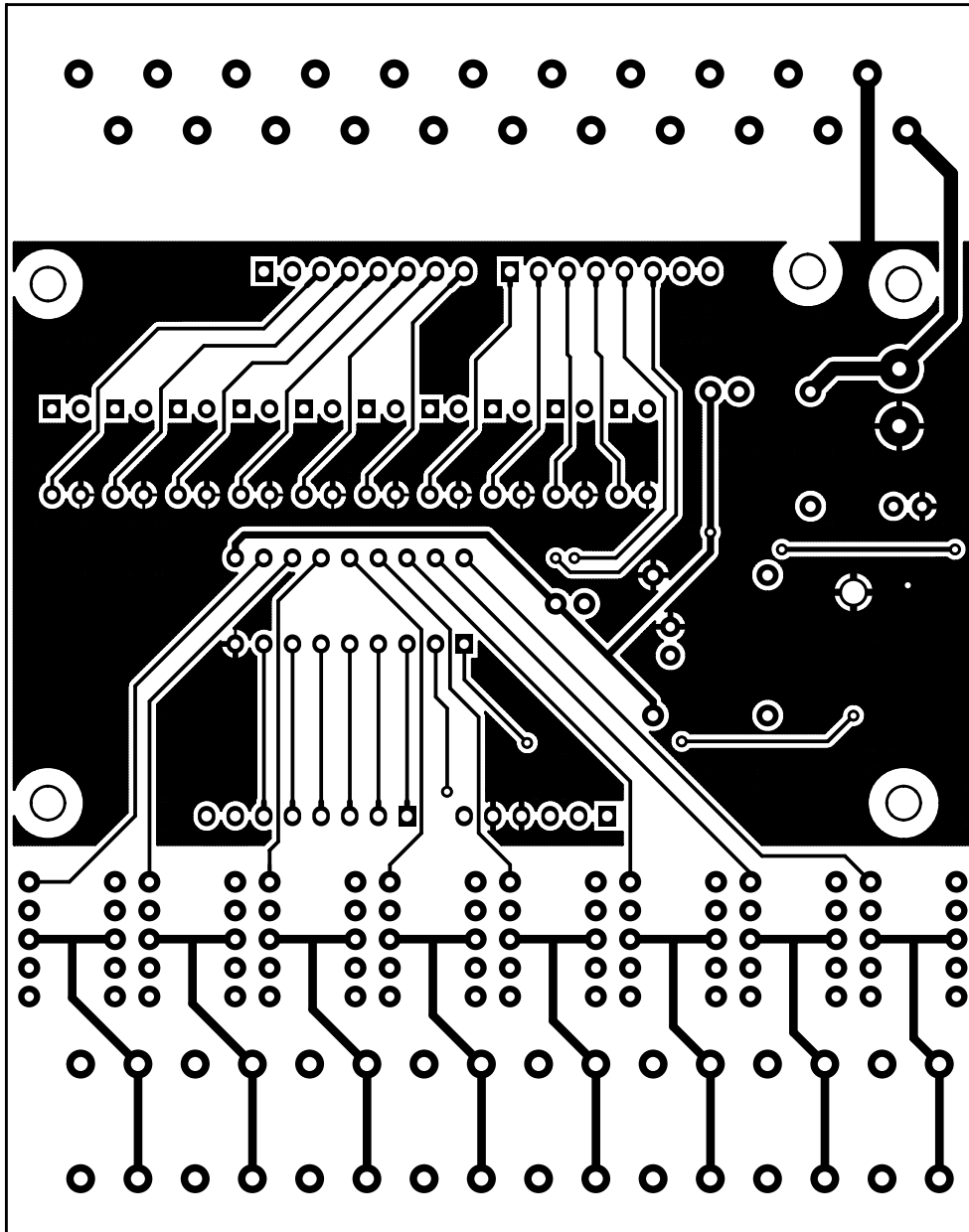


Figure 5. *PLC Isolated I/O Shield
PCB Copper Pattern (Bottom layer)*