

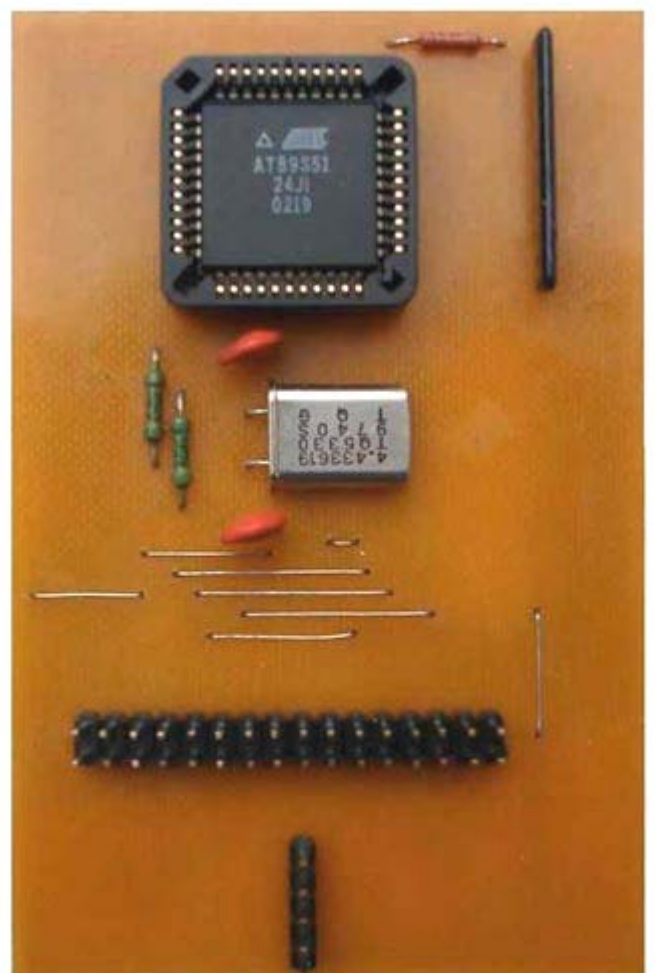
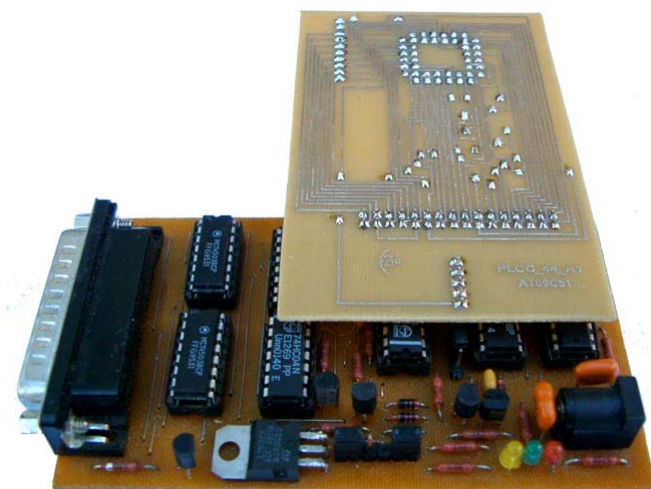
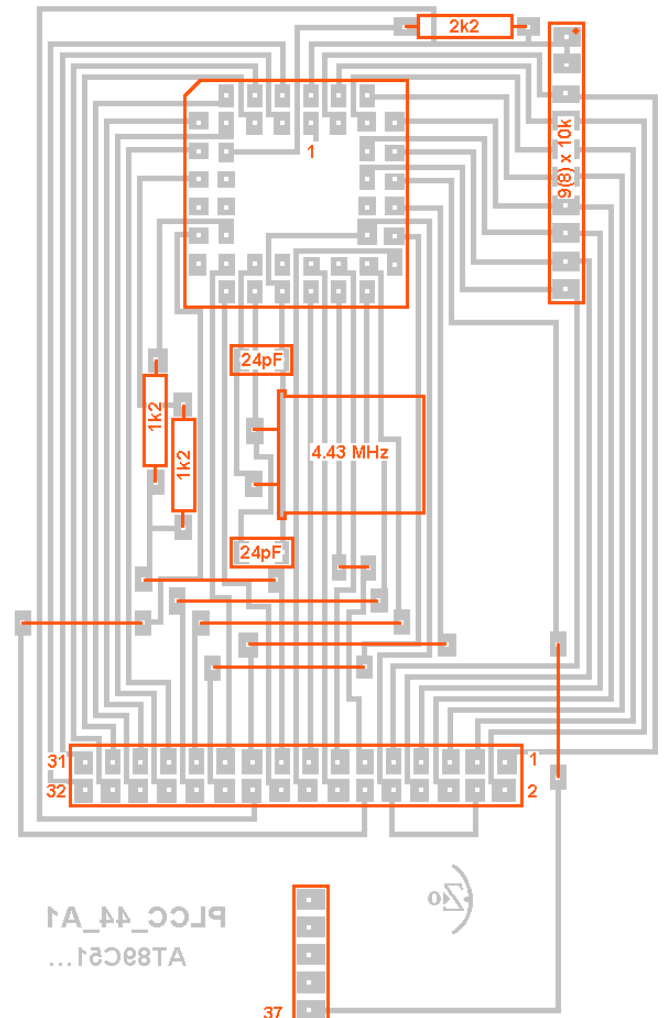
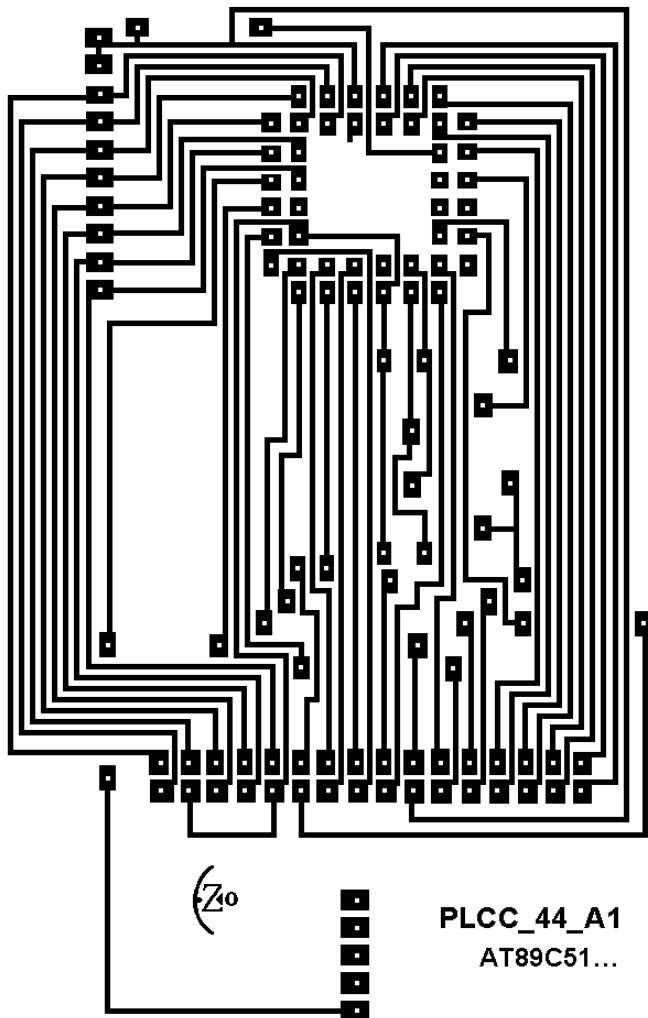
EzoFlash+ adapter for MCS-51 microcontrollers in PLCC-44 package.

R1, R2 – 1k2  
R3 – 2k2  
R-PACK – 9x10k or 8x4k7...10k  
C1, C2 – 24pF  
X1 – Quartz resonator 4.43 MHz (4...10MHz)  
BU5 – Straight pin-header 2x16, division 2.54  
BU7 – Straight pin-header 1x5, division 2.54  
BU8 – IC Socket PLCC-44

The schematic diagram illustrates the internal wiring of the PLCC-44\_A1 package. The package pins are numbered 1 to 44. The diagram shows the following connections:

- Address Lines (A0-A22):** Connected to pins 32, 31, 30, 29, 28, 27, 26, 25, 15, 14, 11, 13, 24, 16, 17, 23, 22, 18, 21, 12, 19, 10, 44, 43, 42, 41, 40, 39, 38, 37, 36, 32, 22, 21, 1, 23, 12, 34, 13, 14, 17, 35.
- Data Lines (D0-D7):** Connected to pins 43, 42, 41, 40, 39, 38, 37, 36.
- Control Lines:**
  - OE:** Connected to pin 15.
  - WE:** Connected to pin 19.
  - CE:** Connected to pin 10.
  - RST:** Connected to pin 10.
- Power Lines:**
  - Vcc:** Connected to pins 44, 20, 43, 42, 41, 40, 39, 38, 37, 36, 32, 22, 21, 1, 23, 12, 34, 13, 14, 17, 35.
  - GND:** Connected to pins 4, 22, 21, 1, 23, 12, 34, 13, 14, 17, 35.
- External Components:**
  - Resistors:** 1k2 (two), 2k2 (one).
  - Capacitors:** 24pF (two).
  - Crystal:** 4.43MHz.
- Package Label:** PLCC-44\_A1.
- Buffer Connections:**
  - BU5:** Connected to pins 4, 22, 21, 1, 23, 12, 34, 13, 14, 17, 35.
  - BU7:** Connected to pins 33, 34, 35, 36, 37.
  - BU8:** Connected to pins 1, 23, 12, 34, 13, 14, 17, 35.

106 x 62 mm



### **3. Settings, verified chip list and info.**

Willem programmer software version 0.97ja

Selected device group *MCS-51 > AT89C5x > ...*

Vcc=5.0V, Vpp=12.0V. Jumpers Jp1, Jp3 (5.0V), Jp5 (A18)

Verified chips AT89S51, AT89C52, AT89S8252, AT89C51RC, AT89C55WD.

Chips AT89C51RC and AT89C55WD with activ lockbits can't be erased, Vcc=6.2V required.

Software doesn't support chip AT89C51RD.

Test results find in chip\_test.xls file

Report problems and share your experience on Willem and EZoFlash forums.