Schottky diodes
(only needed if
power supply by
SPP port desired)

External power
(disconn. JP1 then)
Vcc GND

Atmel programming header
(see appnote AVR910)
1 2 3 4 5 6

JP1

SPP

parallel

port

74367

To AVR chip:

1
2
3
4
5
6
7
8
9
10
14
16
17
18-25

1A1
1A2
1A3
1A4
1OE
2A1
2A2
2OE

1Y1
1Y2
1Y3
1Y4

2Y1
2Y2

/RESET

SCK

MOSI

MISO

XTAL1/2
(or use
ceramics
resonator)

4 x

ca. 220 Ohm

Error   Programming

Ready   Verifying

LEDs are optional (of course :)

ca. 47 nF

Vss

Vcc

Add one decoupling capacitor
per AVR chip/socket.