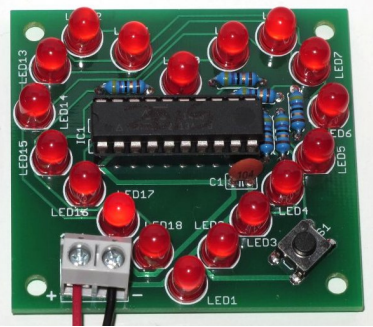
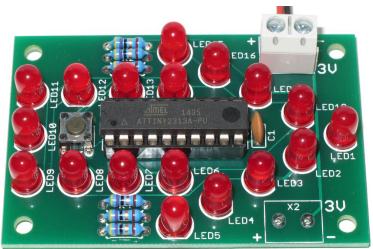
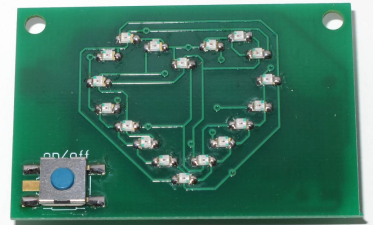
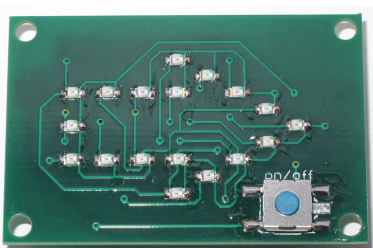
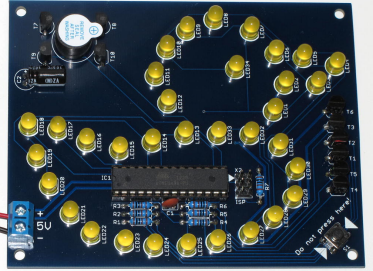
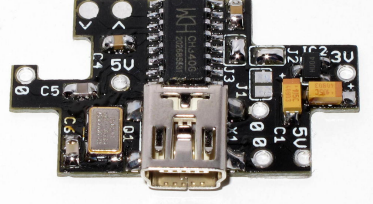


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 	<p>AntiKippenLights-Atmel</p> <p>18 red LEDs which displays several animations, some with fading. This is the large, very easy to solder version.</p> <ul style="list-style-type: none"> • Animations hardcoded, can only be changed with knowledge of AVR assembly language. • Pre-programmed controller (ATtiny2313) • Batteries not included (2x AA needed) <p>Heart or Arrow</p>	<p>very easy</p> <p>SMD: no LED: red</p> <p>10,– €</p>
 	<p>AntiKippenLights-Mini</p> <p>18 red LEDs which displays several animations, some with fading. This is the smaller version using SMD LEDs.</p> <ul style="list-style-type: none"> • Fits into a matchbox. • Animations hardcoded, can only be changed with knowledge of AVR assembly language. • Pre-programmed controller (ATtiny2313) • CR2032 button cell battery included <p>Heart or Arrow</p>	<p>easy</p> <p>SMD: yes LED: red</p> <p>10,– €</p>
	<p>DUCK</p> <p>34 yellow LEDs in duck shape plus speaker.</p> <ul style="list-style-type: none"> • Quacks on button press • Pre-programmed controller (ATmega8) • Animations programmable (requires AVR programmer) • Sound replaceable (max. 200 ms, requires AVR programmer) • Batteries not included (3x AA needed) 	<p>easy</p> <p>SMD: no LED: yellow</p> <p>15,– €</p>
	<p>TicTacLights USB Retrofit</p> <p>Adds USB port for power and data (streaming) to all old revisions of the TicTacLights and TicTacLights Colour kits.</p> <ul style="list-style-type: none"> • For TicTacLights Rev. 1.0, Rev. 2.0 and Rev. 3.0 • For TicTacLights Colour Rev. 1.0 	<p>advanced</p> <p>SMD: yes</p> <p>5,– €</p>
<p>USB Cable</p>	<p>1.5 m long USB cable, one end: type A plug, other end: open wires. For power supply to DUCK or other 5 V projects.</p>	<p>0,50 €</p>

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All projects below use the “BlinkenPlus” firmware . It supports playing animation files from an MMC/SD/SDHC card (FAT16 or FAT32, file formats BIN, BBM, BLM and BML described in the BlinkenArea wiki) or an RS232 or USB (using a virtual serial port) MCUF stream (format documented in the BlinkenArea wiki). They also output a stream of all displayed frames (regardless of source), so one project can act as a master for others (if they have the same resolution). Animation files can be created with “Blimp”, a “Paint”-like GUI where you can draw and set the display duration for each frame. Alternatively you can use the available converters from “BlinkenLib” and the “bl” output plugin for mplayer (colour support with patch), or write your own scripts that generate BlinkenStreams or BlinkenMovies.

	BlinkenLEDs Plus Colour Large BlinkenLights clone (18 x 8 = 144 pixels, aspect ratio 0.55), using through-hole components and 5 mm RGB LEDs. <ul style="list-style-type: none"> • Size: 160 x 100 mm (stack of 2 boards), tiles vertically. • Plays animations from SD card or RS232 stream • RS232 port on board • Pre-programmed controller (Atmega162) • Power supply not included (5 V, min. 1.5 A needed) 	intermediate SMD: no LED: RGB PCB only: 10,– € Full kit: 40,– €
	TicTacLights Small BlinkenLights clone (18 x 8 = 144 pixels, aspect ratio 0.55) with size 0805 LEDs that fits into a small TicTac box. <ul style="list-style-type: none"> • Size: approx. 57 x 33 mm, doesn't tile • Plays animations from Micro-SD card or USB stream. • Powered from USB or lithium-ion battery (not included). • Pre-programmed controller (ATmega8515) • Mini-USB cable included 	advanced SMD: yes LED: orange PCB only: 5,– € Full kit: 30,– €
	TicTacLights Colour Same as above, but with colour LED display. Very bright LEDs! <ul style="list-style-type: none"> • Size: approx. 57 x 33 mm, doesn't tile. • Plays animations from Micro-SD card or USB stream. • Powered from USB or other 5 V source. • Pre-programmed controller (Atmega162), BlinkenPlus Firmware • Mini-USB cable included 	very difficult SMD: yes LED: RGB PCB only: 10,– € Full kit: 35,– €
	TicTacLights Nano Minuscule BlinkenLights clone (18 x 8 = 144 pixels, aspect ratio 0.55) with size 0603 LEDs that fits into a mini TicTac box. <ul style="list-style-type: none"> • Size: approx. 31 x 20 mm, doesn't tile • Plays animations from Micro-SD card or USB stream. • Powered from USB or rechargeable battery (included!). • Pre-programmed controller (ATmega8515) • Micro-USB cable included • TicTac box included 	nightmare SMD: yes LED: orange PCB only: 7,– € Full kit: 35,– €
	ArcadeMicro ARCADE clone (26 x 20 pixels = 520 pixels, aspect ratio 0.5) with size 0805 SMD LEDs. <ul style="list-style-type: none"> • Size: 102 x 66 mm, tiles vertically • Plays animations from SD card or RS232 stream. • Pre-programmed controller (ATmega162) • RS232 port (1 m cable with connector) • Power supply not included (5 V, min. 1 A needed) 	advanced SMD: yes LED: orange PCB only: 5,– € Full kit: 60,– €
	StreamSplitter Split one input stream (or files read from SD card) into several smaller, equally sized output streams. Useful for tiling several displays of identical kits. Up to 4 RS232 outputs (RJ45 connectors). <ul style="list-style-type: none"> • BlinkenPlus Firmware (controller is unprogrammed, input and output resolutions are set at “compile” time) • Fits TEKO 3A.1 aluminium enclosure (not included) 	intermediate SMD: some 17,– €

See reverse side for more kits.