
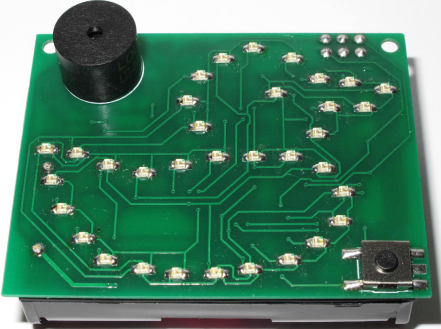




BlinkenArea Kits 36C3



Kits for Beginners

	<p>Continuity Tester</p> <p>A simple continuity tester with audible and visual indication.</p> <ul style="list-style-type: none"> • Includes enclosure (80 x 40 x 20 mm) • Detects only true continuity < 50 Ω, not semiconductor junctions or higher resistances • Beeps and lights up • Simple circuit without ICs • Battery not included (1x AAA needed) • Requires two standard test leads with 4 mm plugs 	<p>Difficulty: very easy</p> <p>SMD: no</p> <p>12,- €</p>
	<p>Light Chaser Ring</p> <p>20 LEDs in a ring with a simple light chaser circuit in the middle. LEDs can be chosen from 6 different colours (colours can be mixed).</p> <ul style="list-style-type: none"> • Size: 50 mm diameter • Logic ICs only (no microcontroller) • 2 holes for hanging • CR2032 button cell battery included <p>NEW</p>	<p>Difficulty: very easy</p> <p>SMD: no LED: red orange yellow green blue white</p> <p>5,- €</p>
	<p>LED Star</p> <p>20 orange LEDs in a star shape which display several animations, some with fading.</p> <ul style="list-style-type: none"> • Size approx. 67 x 63 mm • Pre-programmed controller (ATtiny13) • Animations hardcoded, can only be changed with knowledge of AVR assembly language • 2 holes for hanging • CR2032 button cell battery included <p>NEW</p>	<p>Difficulty: fairly easy</p> <p>SMD: yes LED: orange</p> <p>5,- €</p>
	<p>DUCK Mini</p> <p>34 yellow LEDs in duck shape plus speaker. The LEDs play several animations, some with fading.</p> <ul style="list-style-type: none"> • Quacks on button press • Size approx. 56 x 43 mm • Pre-programmed controller (ATtiny88) • Animations programmable (requires AVR programmer) • Sound replaceable (< 200 ms, requires AVR programmer) • Batteries not included (3x AAA needed) 	<p>Difficulty: fairly easy</p> <p>SMD: yes LED: yellow</p> <p>10,- €</p>



BlinkenArea Kits 36C3



Kits for Experts

The 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, or write your own scripts that generate BlinkenStreams or BlinkenMovies.

	<p>TicTacLights Nano Colour</p> <p>Tiny BlinkenLights clone (18 x 8 = 144 pixels, aspect ratio 0.55) with size 0404 RGB LEDs. Fits into a mini TicTac box. Reflow soldering required.</p> <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 (ATmega162) • Micro-USB cable included • Clear Mini TicTac box included <p>Workshop</p>	<p>Difficulty: very difficult, steady hand and many hours of patience required</p> <p>SMD: 0.5 mm LED: RGB</p> <p>45,- €</p>
	<p>ArcadeNano</p> <p>ARCADE clone (26 x 20 pixels = 520 pixels, aspect ratio 0.5) with size 0603 SMD LEDs. Fits into a regular TicTac box.</p> <ul style="list-style-type: none"> • Size: approx. 33 x 57 mm (fits into a small TicTac box) • Plays animations on Micro-SD card or USB MCUF stream • Powered from USB or rechargeable battery (included!). • Pre-programmed controller (Atmega162) • Mini-USB cable included 	<p>Difficulty: difficult</p> <p>SMD: 0.65 mm LED: orange</p> <p>60,- €</p>
	<p>ArcadeNano Colour</p> <p>Same as ArcadeNano, but with RGB LEDs.</p> <p>Reflow soldering required (for LEDs). Stencil can be borrowed from BlinkenArea.</p> <ul style="list-style-type: none"> • Size: approx. 33 x 57 mm (fits into a small TicTac box) • Plays animations on Micro-SD card or USB MCUF stream • Powered from USB only (no battery). • Pre-programmed controller (Atmega644) • Mini-USB cable included <p>NEW</p>	<p>Difficulty: very difficult, can take several days to make and debug</p> <p>SMD: 0.65 mm LED: RGB</p> <p>80,- €</p>