Basic Atmega328 Breakout Board v1.2

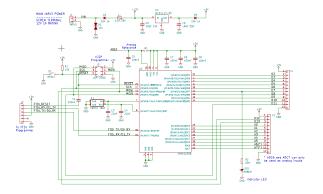
Designed by Jenner Hanni at Wickerbox Electronics Released under the CERN Open Hardware License v1.2 http://wickerbox.net - jenner@wickerbox.net Released December 31, 2016 The project is released as open hardware under the CERN v1.2 Open Hardware license.

The project uses the Atmega328 template from wickerlib.

You can order a set of three bare boards for \$13.35 from OSH Park here.

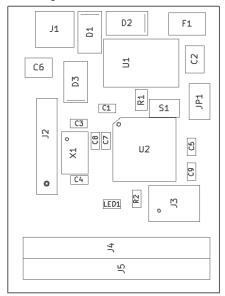
Bill of Materials

Ref	Qty	Description	Digikey PN
C2 C6	2	CAP CER 10UF 25V X7R 1210	587-2599-1-ND
C3 C4	2	CAP CER 22pF 100V C0G NP0 0603	399-11145-1-ND
C7 C8 C9 C1 C5	5	CAP CER 0.1UF 100V X7R 0603	490-3285-1-ND
D1	1	TVS DIODE 14VWM 23.2VC SMAJ14A-13-F SMA	SMAJ14A-FDICT-ND
D2 D3	2	DIODE SCHOTTKY 20V 1A SMA	SS12-E3/61TGICT-ND
F1	1	RESETTABLE FUSE 1.1A 25V MF-MSMF	MF-MSMF110/24X-2CT-ND
J1	1	CONN TERM SCREW GREEN 2.54MM 2POS TH	ED10561-ND
J2	1	HEADER MALE 6POS TH 1x06 0.1"	952-1902-ND
J3	1	HEADER MALE 6POS 2x3 0.1"	952-1921-ND
J4 J5	2	HEADER FEMALE 12POS TH 1x12 0.1"	952-1905-ND
JP1	1	SHUNT JUMPER 0.1IN BLACK GOLD	3M9580-ND
LED1	1	LED AMBER DIFFUSED 0603 SMD	475-2712-1-ND
R1	1	RES SMD 10K OHM $5\% \ 1/8W \ 0805$	311-10KARCT-ND
R2	1	RES SMD 220 OHM 5% 1/10W 0603	311-22GRCT-ND
S1	1	SWITCH TACTILE SPST-NO 0.05A 12V	SW1020CT-ND
U1	1	IC REG LDO 5V 1.1A NCP1117 DPAK	NCP1117DT50GOS-ND
U2	1	IC MCU 8BIT 32KB FLASH 32TQFP	ATMEGA328P-AU-ND
X1	1	$16\mathrm{MHz}$ 30ppm Crystal 18pF 40 Ohm 4SMD NOLEAD	CTX1206CT-ND

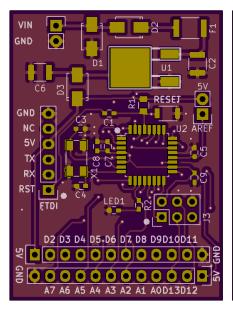


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