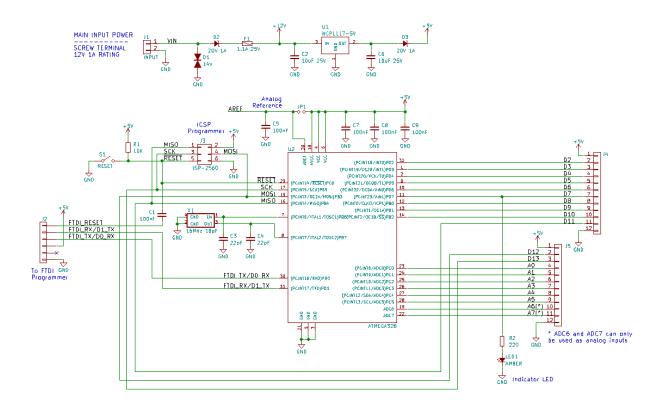
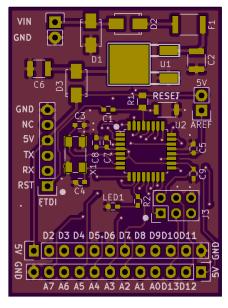
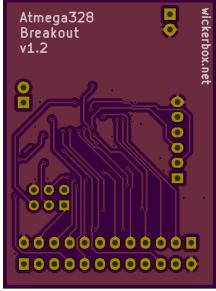
## Basic Atmega328 Breakout Board v1.2

This is a breakout board for the Atmega328. It supports input voltage up to 16V, regulating down to 5V for the microcontroller. A bootloader can be loaded over ICSP and then the board can be powered and communicated with over an FTDI cable. All the input/output pins are broken out for prototyping.

The project is released as open hardware under the CERN v1.2 Open Hardware license.





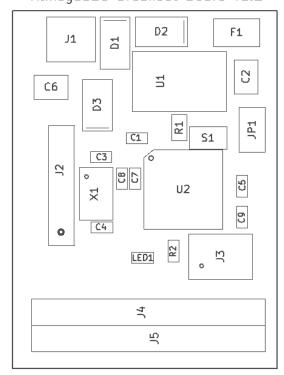


December 31, 2016 http://wickerbox.net/

## 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	CRYSTAL 16MHz 18pF 40 OHM 4SMD	CTX1206CT-ND

Atmega328 Breakout Board v1.2



12/31/16

December 31, 2016 http://wickerbox.net/