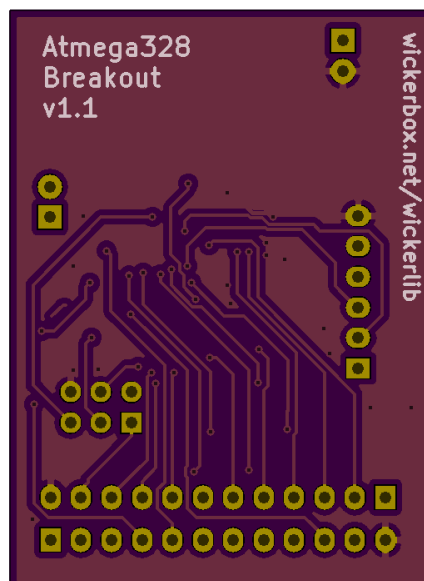
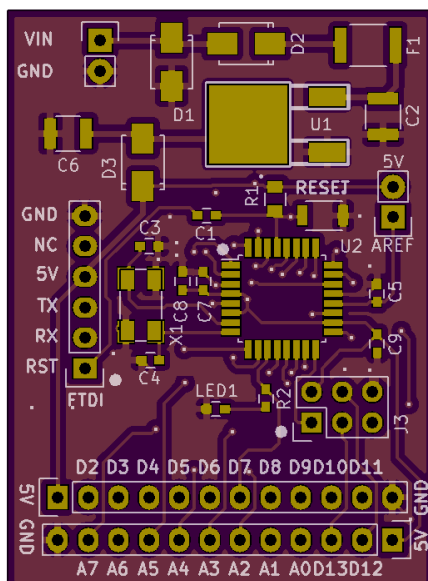
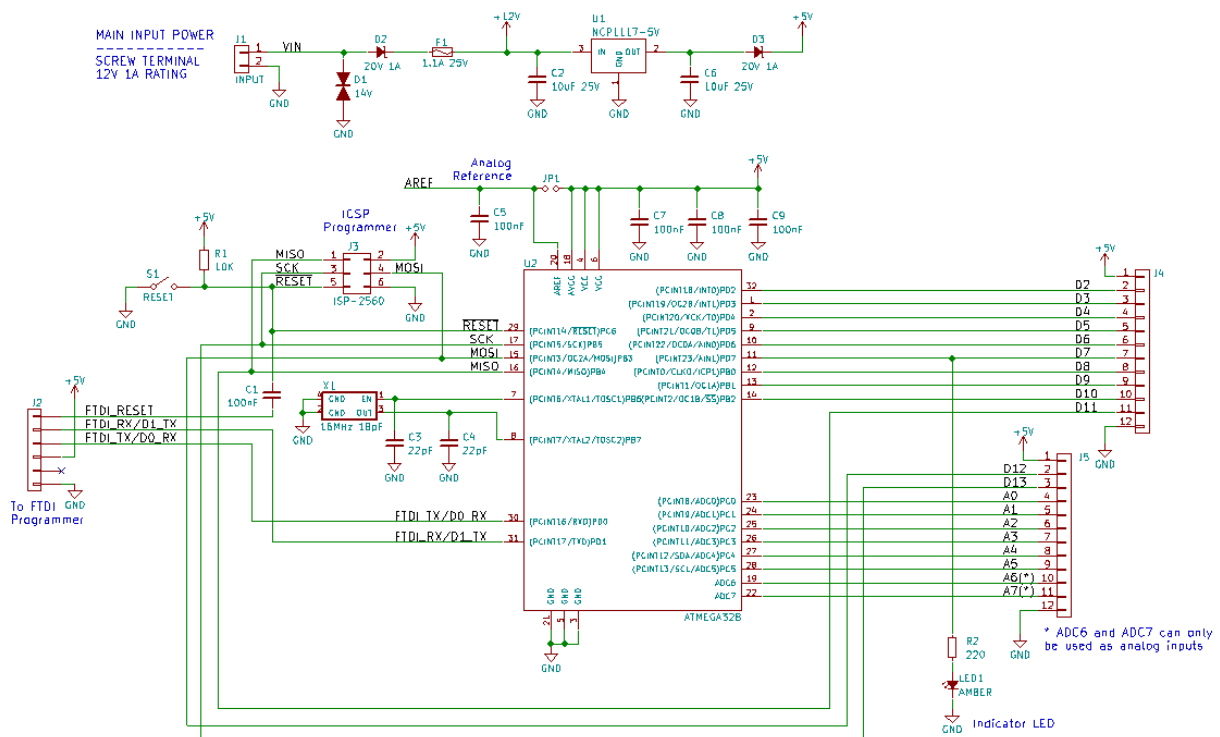


Basic Atmega328 Breakout Board v1.2

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.

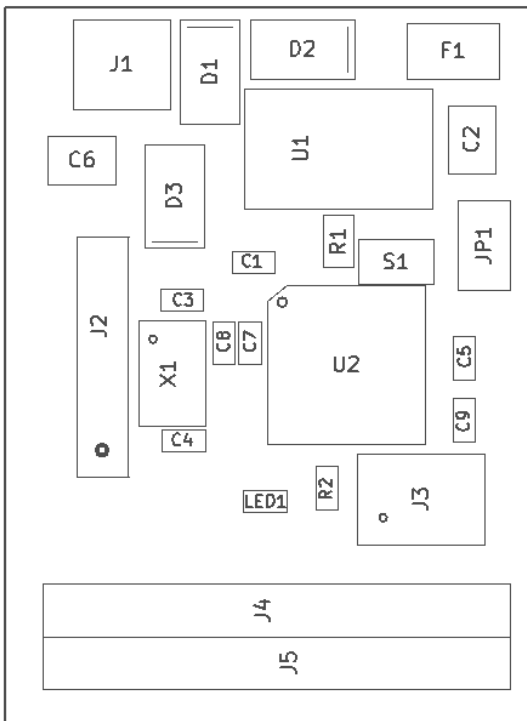
The project is released as open hardware under the CERN v1.2 Open Hardware license.



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