PRG_SWIO

+3.3V

U1
CH32V003F4P6

1	PD4	PD3	20
2	A5/UTX(pd5)	PD2	19
3	A6/URX(pd6)	SWIO(pd1)	18
4	PD7	PC7	17
5	PA1	PC6	16
6	PA2	PC5	15
7	VSS	PC4	14
8	PD0	PC3	13
9	VDD	PC2	12
10	PC0	PC1	11

MISO
MOSI
SCK
CS

GND

+3.3V

J1
Micro_SD_Card

1	DAT2
2	DAT3/CD
3	CMD
4	VDD
5	CLK
6	VSS
7	DAT0
8	DAT1

SHIELD SH

C1 220uf   C2 0.1u

GND
+3.3V

Choose 3.3V regulator that
supports minimum of 150mA

COMM_Rx

100
R1

5V Tolerant
Baud rate: 1200bps ~ 3Mbps

D1
STATUS

SW1
Start/Stop

GND

47uF C3   0.1u C4

GND