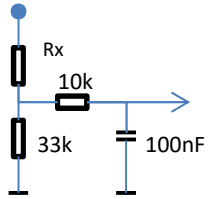
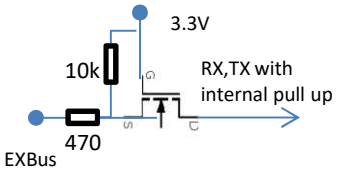
Analog input

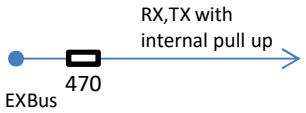


Rx	328PB 5V	3.3V
Measure		
5V	0	16k
10V	33K	68k
20V	100k	168k
30V	168k	270k
50V	300k	470k
60V	360k	567k
80V	500k	768k

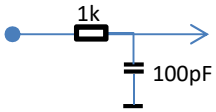
EX Level shifter for 5V



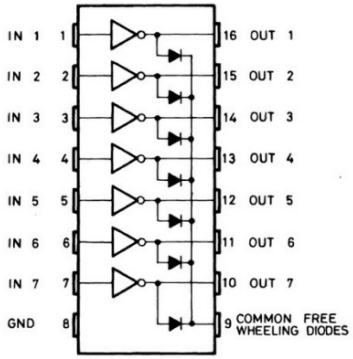
„EX Level shifter“ for 3.3V



Min. Input Pin protection



Output Driver
ULN 2003A:
- Vmax= 50V
- Imax=500mA



GPS / GNSS:
uBlox 6 or 8
9600 Baud
Sentence RMC & GGA

Current Sensor
Allegro: ASC 7xx

Orientation:
BNO055
2x Bridges closed
ADD = GND
Boot, Reset= open

Pressure:
BME280

Configuration u-center (optional)
View->Configuration View ->
NAV5->Dynamic Model->Airborne >4g
Rate->Measurement Period 500ms or 1000ms
MSG->UART1->Message->F0-00 NMEA GxGGA
MSG->UART1->Message->F0-04 NMEA GxRMC

PD0	USART0	RX0 ESC
PD1	USART0	TX0 not connected
PD2	OC3B	??? free
PD3	OC2B	Buzzer
PD4	I/O	PIN Output: PIN 0
PD5	I/O	LED Flash A
PD6	I/O	LED Flash B
PD7	I/O	LED Flash C
*		
PB0	IC1	RX (SW-USART) GPS
PB1	I/O	PIN Output: PIN 1
PB2	OC1B	TX (SW-USART) not connected
PB3	USART1	TX1 exBus
PB4	USART1	RX1 exBus
PB5	I/O	System Status LED
*		
PC0	ADC0	Voltage 0 + MIN / MAX
PC1	ADC1	Voltage 1
PC2	ADC2	Voltage 2
PC3	ADC3	Current I
PC4	I2C0	SDA
PC5	I2C0	SCL
*		
PE0	I/O	PIN input: low -> Message to TX display
PE1	T4	RPM high: falling edge, 2Hz resolution
PE2	IC3	RPM low : falling edge, 3ms minimum period
PE3	I/O	??? analog / digital input free