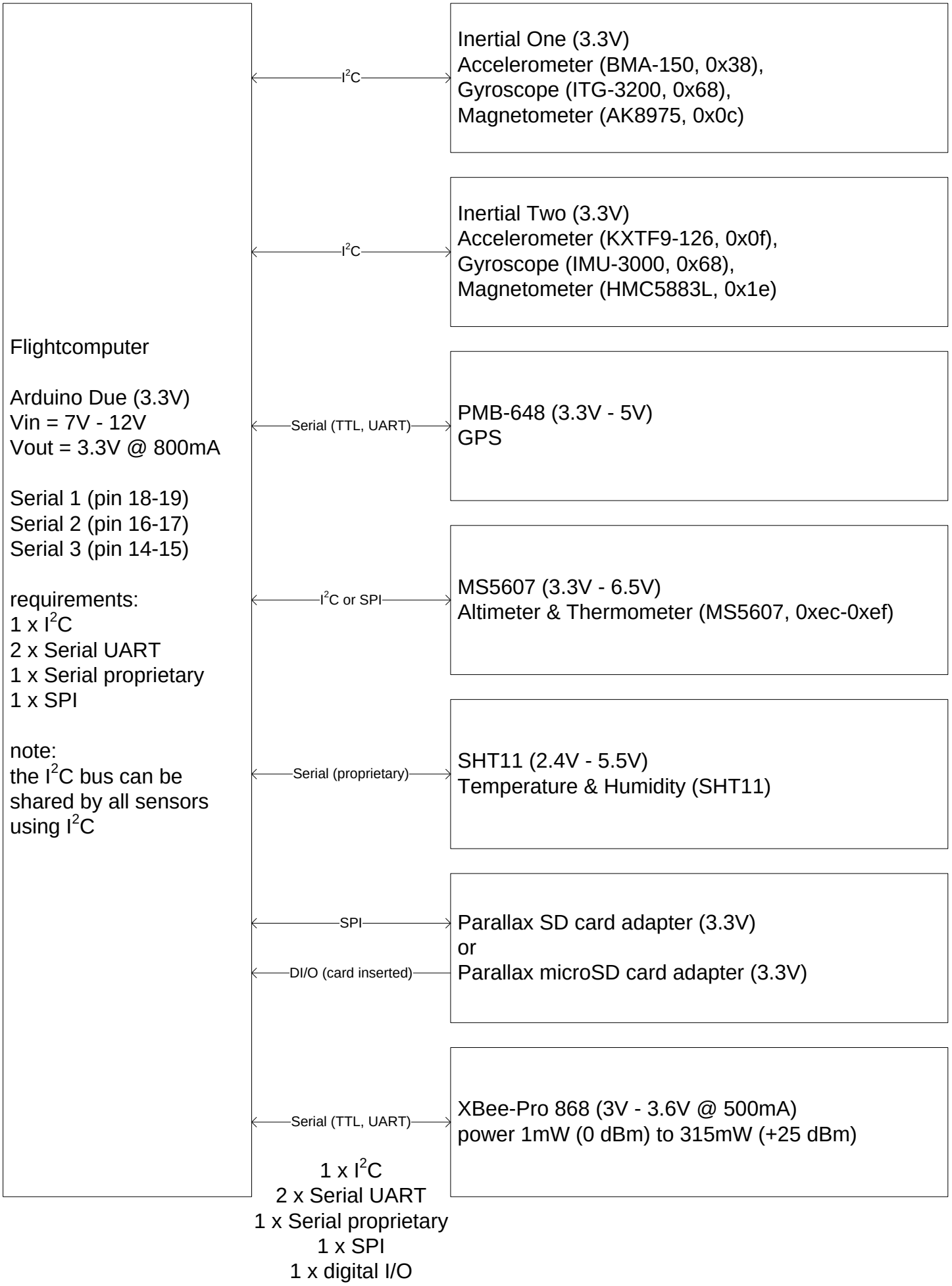
Flightcomputer
Arduino Due (3.3V)
Vin = 7V - 12V
Vout = 3.3V @ 800mA
Serial 1 (pin 18-19)
Serial 2 (pin 16-17)
Serial 3 (pin 14-15)
requirements:
1 x I2C
2 x Serial UART
1 x Serial proprietary
1 x SPI
note:
the I2C bus can be shared by all sensors using I2C
I2C
Inertial One (3.3V)
Accelerometer (BMA-150, 0x38),
Gyroscope (ITG-3200, 0x68),
Magnetometer (AK8975, 0x0c)
I2C
Inertial Two (3.3V)
Accelerometer (KXTF9-126, 0x0f),
Gyroscope (IMU-3000, 0x68),
Magnetometer (HMC5883L, 0x1e)
Serial (TTL, UART)
PMB-648 (3.3V - 5V)
GPS
I2C or SPI
MS5607 (3.3V - 6.5V)
Altimeter & Thermometer (MS5607, 0xec-0xef)
Serial (proprietary)
SHT11 (2.4V - 5.5V)
Temperature & Humidity (SHT11)
SPI
DI/O (card inserted)
Parallax SD card adapter (3.3V)
or
Parallax microSD card adapter (3.3V)
Serial (TTL, UART)
XBee-Pro 868 (3V - 3.6V @ 500mA)
power 1mW (0 dBm) to 315mW (+25 dBm)
1 x I2C
2 x Serial UART
1 x Serial proprietary
1 x SPI
1 x digital I/O