

research on GPS module

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1 What to consider before choosing GPS module

List of needed requirements	
Type of requirement	specific of the requirement for the project
size	for the wrist band is has to be about 20 mm x 20 mm, for the boat there is no specification
update rate	1-10 Hz
power requirements	3.3/5V - we make a voltage regulator
number of channels	?
time to first start	?
antenna	best if included
accuracy	the more precise the better, budget is a problem, at least 3 m horizontal accuracy for the prototype
microcontroller compatible with	Arduino

2 Considered options and their specifications

1. Spark Fun
2. NEO - 6
3. BN-220

3 Comparison

requirement	Spark Fun	NEO - 6	BN-220
size			
update rate			
power			
desired number of channels			
time to first start			
antenna			
antenna			
accuracy of min 3 m	X	X	X
compatible with Arduino	X	X	X
budget			