

OSO Stat

10/9/15 Progress

Core-

Arduino→ ●●●

TinyDuino Core

RTC→ ●●●

TinyDuino RTC. Other RTC options available for future R&D. Lower power requirements, less drift over time, different size batteries

BTLE→ ●●○

TinyDuino RTC. Connectivity successful. Have not tried to push a file to a paired device.

Data Storage→ ●●●

SolutionsCubed BM003. Successful stored .txt file.

Size Constrictions-

Battery→ ●●○

LiPo battery with JST connector. Need to determine power requirements to find mAh needed. Also potential to not have to use JST connector so save space.

3D Printed Enclosure→ ●●○

SLA print sources available

Input Detection-

Sparkplug Wire Wrap→ ●●○

Detection successful, need to find if circuit used had built in smoothing for no signal jitter.

Vibration Sensor/ Accelerometer→ ●○○

TinyDuino Accelerometer. Detection successful, but need higher level programming to turn on for specific running vibration Hz.