



WayWard

Connecting data. Improving care.

## The WayWard Position Logger

The WayWard Position logging system is based upon the Intel Edison single board computer. It is designed to record key information such as received signal strength from all Wi-Fi access points and Bluetooth Low Energy beacons at regular intervals.

An associated base station acts as a data repository and charging station. When each logger box is plugged in to charge at the base station it ceases logging and passes encrypted data to the base station. In turn a summary of the data is passed to researchers who periodically collect the logs from the base station via SD card.

The loggers and base station are enclosed in a 3D printed case which is designed to be disposable for infection control purposes.



*The Intel Edison*



*The Complete WayWard Tracking System in situ with eight tracking boxes.*

Data from the loggers is decrypted and processed using software and algorithms developed as part of the project.

