RS232 protocol at 9600 baud, even parity, and 1 stop bit

Be able to receive ventilator data

Request data from ventilator

Receive ventilator data

Communicate with pulse oximeter on a secure protocol

Be able to receive pulse oximeter data

Request data from pulse oximeter

Receive pulse oximeter data

Communicate with capnograph on a secure protocol

Be able to receive capnograph data

Request data from capnograph

Receive capnograph data

Communicate with ventilator on a secure protocol

Maintain stored power

Be able to run continuously on uninterruptible power supply

Automatically switch from standard to backup power

Alert user when using backup power

Be able to

pre-process data

Be able to display H1/DC and battery

Be searchable

Be in a relative database

Be regulatory certified

Be able to keep data encrypted while at rest

Be able to keep data encrypted while in transit

Split incoming data

Compute a Fast Fourier Transform

Calculate H1/DC

Display H1/DC

Create relative database record

Encrypt data

Store data

Upload stored data to the cloud

Be HIPAA compliant