

### **Remote unit, FCCID; QYPPWR-08-01 Operational Description**

**Please refer to the schematic, CSR BC212015 data sheet, and block diagram.**

This unit consists of a Cambridge Silicon Radio (CSR) Bluetooth chip with embedded XAP2 processor.

An RF power amplifier and an LNA are used to provide 100m (Bluetooth Class 1) range for the device.

A real-time clock with battery backup is connected with GPIO lines.

In normal operation, medical data is retrieved from the host device over a serial connection and stored in the flash memory.

A wireless connection is established to an access point and the data is forwarded over the link.

### **Access point, FCCID; QYPPWA-08-01 Operational Description**

**Please refer to the schematic, CSR BC212015 data sheet, and block diagram.**

This device consists of a Philips LPC2292 ARM processor with two serial connections.

One serial connection is used to communicate with a Bluetooth module functionally identical to the Remote Unit. The other serial connection is used to communicate with a v.92 telephone modem from Conexant.

A real-time clock identical to that in the remote unit is attached to the GPIO lines of the ARM CPU instead of to the Bluetooth chip.

In normal operation, the access point listens for medical data coming in over its Bluetooth port, stores that data in flash memory, then dials a number and forwards the data over the telephone modem.