Bluetooth-enabled ECG, PPG & skin temperature monitoring patch reference designs

ECG + PPG Sensors
TPD1E10B06 (ESD Diode) → AFE4900 (Synchronized PPG + ECG) → CC2640R2F (ARM® Cortex® M3 + Bluetooth® LE)

3V DC

CR3032 Coin Cell Battery
TPS61099 → TPS63036

4.2V DC

2.1V DC

Flexible thin-film battery

Temperature sensor TMP117

I2C

New!

Target end equipments:
- Medical sensor patches
- Multiparameter patient monitors
- Wireless patient monitors
- Electrocardiogram (ECG)
- Pulse oximeter
- Mother and neonatal care monitors

Reference designs
- Wireless ECG+PPG patch
- Wireless temp patch
- Multi-wavelength PPG patch