Impact Technical Resources

SensaPatch

The proven platform behind your next MedTech wearable

OVERVIEW

SensaPatch is a chest patch wearable module within the Sensa platform, built for clinical-grade biosignal monitoring and early-stage MedTech validation. Optimized for stable ECG acquisition and multi-modal data collection, it gives development teams and researchers a proven hardware foundation to start capturing high-quality physiological data and testing from day one.

As part of the broader Sensa ecosystem, SensaPatch connects with SensaSDK and SensaHub - enabling a more efficient path from early biosignal exploration to a fully customized product tailored to the customer's specific clinical and regulatory needs. Developed under ISO 13485 with processes aligned to IEC 62304.

CORE FEATURES

- **Form Factor**: Adhesive chest patch for optimal ECG signal quality
- **Sensors**: 1-Channel ECG, PPG, EDA, Skin Temperature, 6-Axis IMU
- **Connectivity**:
  - Non-LTE variant: Bluetooth 5.4 LE + WiFi 6
  - LTE variant: Bluetooth 5.4 LE + WiFi 6 + LTE Cat 1 Bis
- **Battery Life**: Up to 30 days on a single charge
- **SensaSDK**: Raw data access for algorithm & application development
- **SensaHub**: Centralized data collection, visualization & secure download
- **Water resistance**: IP67

APPLICATIONS

- Holter and Mobile Cardiac Telemetry (MCT)
- Clinical-grade ECG waveform collection
- Remote patient monitoring (RPM) with cellular connectivity
- Home sleep apnea testing (HSAT) workflow support
- Long-term cardiac research
- Continuous respiratory rate monitoring
- Heart failure monitoring
- Thoracic fluid status trending

SAVE
12 MONTHS
OF DEVELOPMENT

READY TO ACCELERATE YOUR MEDTECH PROGRAM?

Weeks 1-4

Phase 1. POC Development

Select SensaPatch hardware. Develop on SensaSDK. Deploy to beta users. Collect sensor data via SensaHub.

Months 1-3

Phase 2. Funding & Validation

Raise funding with POC proof. Conduct pilot studies. Validate clinical assumptions with real data. Finalize regulatory pathway.

Months 3-9

Phase 3. Product finalization

ITR customizes hardware and optimizes firmware for target use cases. Conduct lab testing. Prepare Design History File and ensure manufacturing readiness.

Months 9-12+

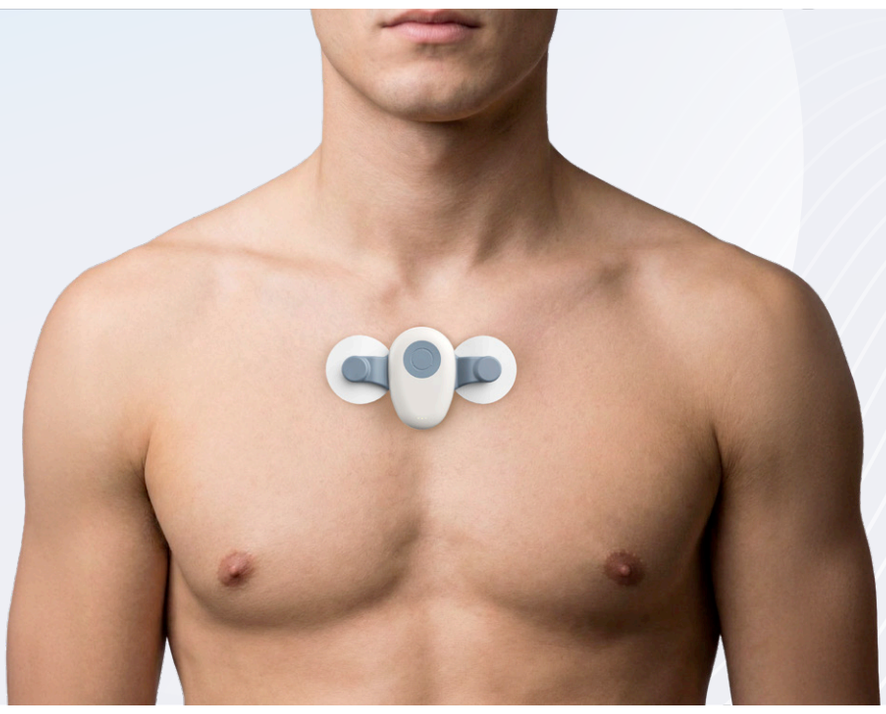
Phase 4. Market preparation

Regulatory submission (FDA/EU MDR). Ramp up manufacturing. Sales and distribution launch. Post-market surveillance.

FULL ACCESS TO RAW BIOSIGNALS FROM DAY ONE

Compliant with international standard

ISO 13485 IEC 62304



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