






| Safety - Gesture SOS | Health Monitoring | Real-time Translation |
|---|--|--|
| Stay protected in emergencies | Early detection & wellness tracking | Break language barriers anywhere |
| <div>→ Hand gesture triggers SOS</div> <div>→ sends live location</div> <div>→ offline SMS backup</div> | <div>→ 24×7 Heartrate & SpO₂ monitoring</div> <div>→ AI insights on phone</div> | <div>→ Speak any Language</div> <div>→ Instant 2 way Translation</div> <div>→ Audio output</div> |
|  |  |  |

Problem



Safety

- Slow emergency response
- 1 in 3 women feel unsafe in public

Health

- Silent medical issues go unnoticed
- 70% emergencies need early detection

Language

- India has 22 languages & 720+ dialects
- Communication breaks in travel & emergencies

Solution



Safety – Gesture SOS

- Gesture → Instant SOS → Live location
- Works even without internet (SMS fallback)

Health – Continuous Monitoring

- 24x7 HR + SpO2 tracking
- AI alerts for abnormal patterns

Communication – Live Translation

- Speak → Instant translated audio
- Supports multiple language pairs

Impact



Safety Impact

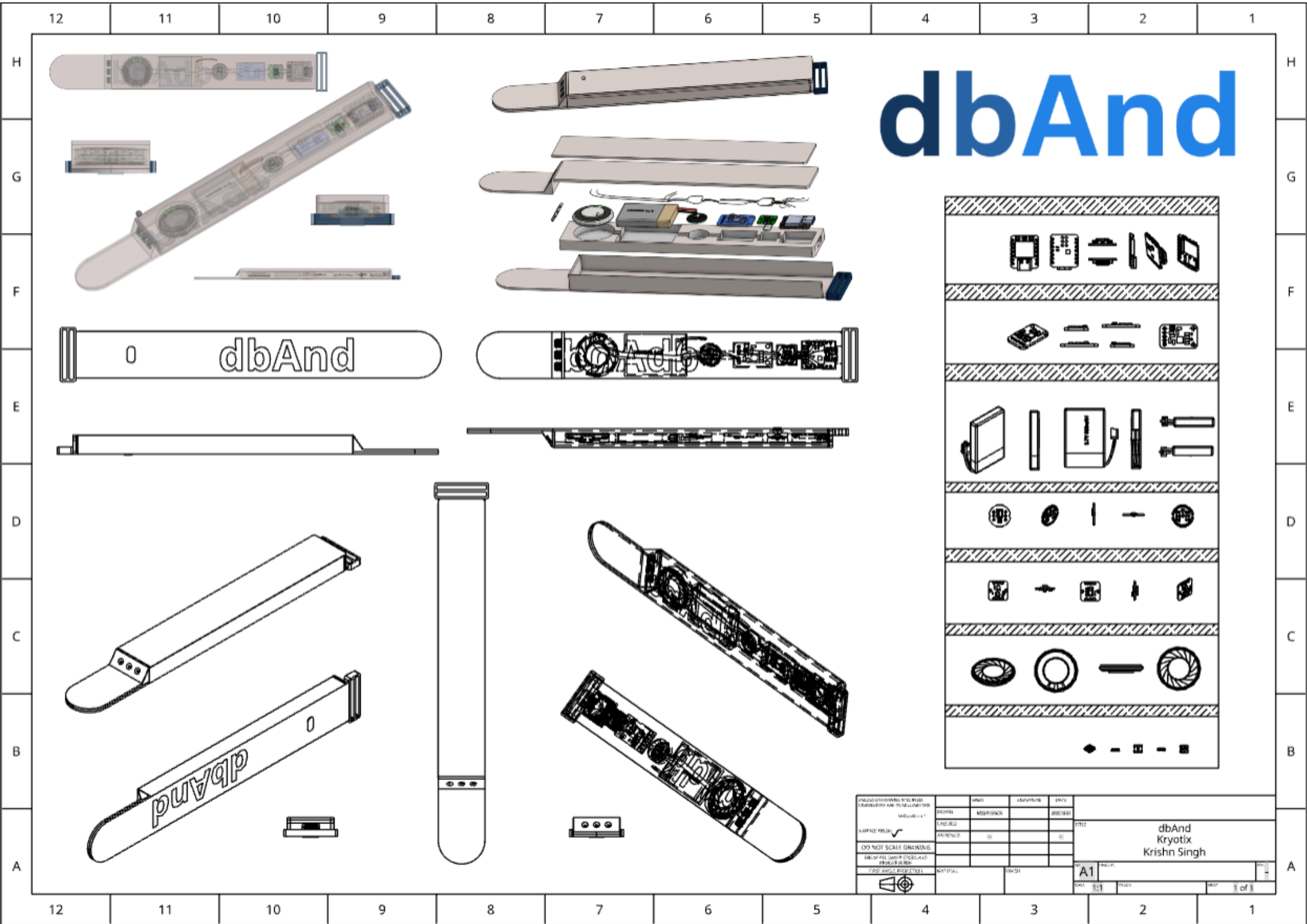
- Faster help = saves lives
- Helps all incl. women, elderly, travelers

Health Impact

- Early detection prevents emergencies
- Daily wellness support

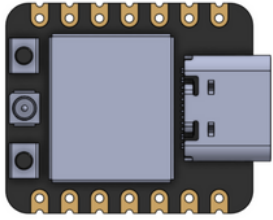
Communication Impact

- Removes language barriers
- Enables travel, inclusivity & confidence

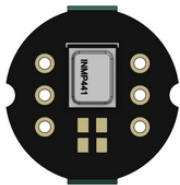


dbAnd

Seeed Studio
XIAO ESP32-C3



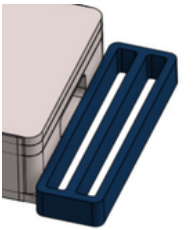
INMP441 digital
I²S microphone



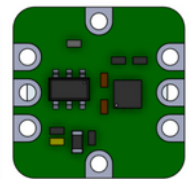
8Ω 2W mini
speaker



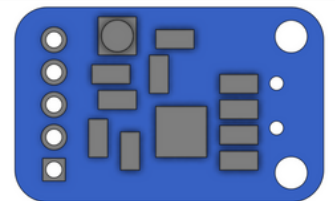
Buckle



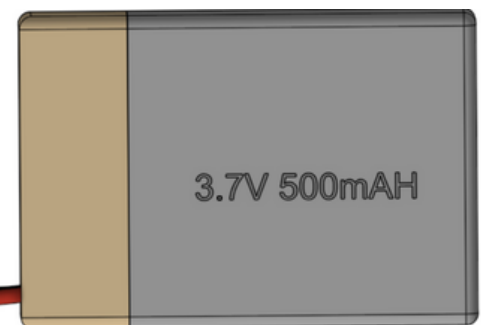
MAXREFDES117
Sensor



PAM8302 audio
amplifier



3.7V 600mAh
Li-Po
battery



touch
sensors

Under ₹999

Highly Adaptable



Physical Design / Dimensions

- Band length: 240 mm (adjustable)
- Band width: 25 mm
- Fabric thickness: 3 mm
- Electronics thickness: 7–10 mm
- Module size: $\approx 50 \times 22 \times 10$ mm
- Battery size: $\approx 30 \times 20 \times 5$ mm (500–600 mAh)



onshape®

Key Features

- SOS via touch/gesture
- Auto live location to police & contacts
- Offline SMS emergency support
- Continuous HR & SpO₂ (MAXREFDES117)
- Real-time speech translation (app)
- Voice input/output (mic + speaker)
- Dual capacitive touch (nav + SOS)
- RGB micro-LED alerts/status
- BLE smartphone link for AI features
- 6–12 hr battery, power-optimized
- Sleek fabric wristband design