



ALEC

Adaptive Lazy Evolving Compression

alec-codec.com

Compress Patient Telemetry by 93%

Streaming compression for vital signs, wearables, and remote patient monitoring. Lossless, real-time, and small enough to run on any medical wearable MCU.

THE CHALLENGE

- Continuous vital signs = battery drain
- Wearable BLE/cellular bandwidth limits
- Critical alerts must never be delayed

THE SOLUTION

- 93% lossless compression on vital sign streams
- P1 critical alerts bypass all batching
- 2 KB RAM — runs on wearable-grade MCUs

KEY RESULTS

93%

Data Reduction

5×

Battery Extension

<1ms

Encode Latency

0

Data Loss

Ready to optimize patient monitoring?

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