

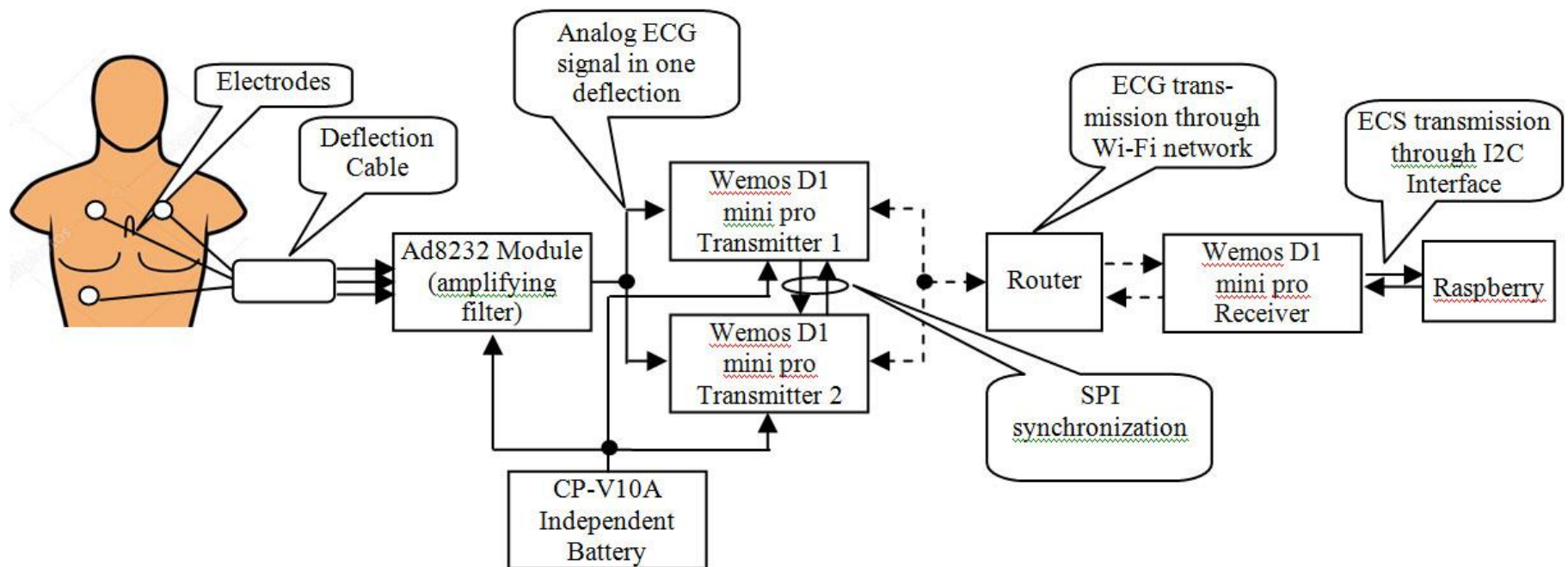
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Petropavlovsk, Kazakhstan



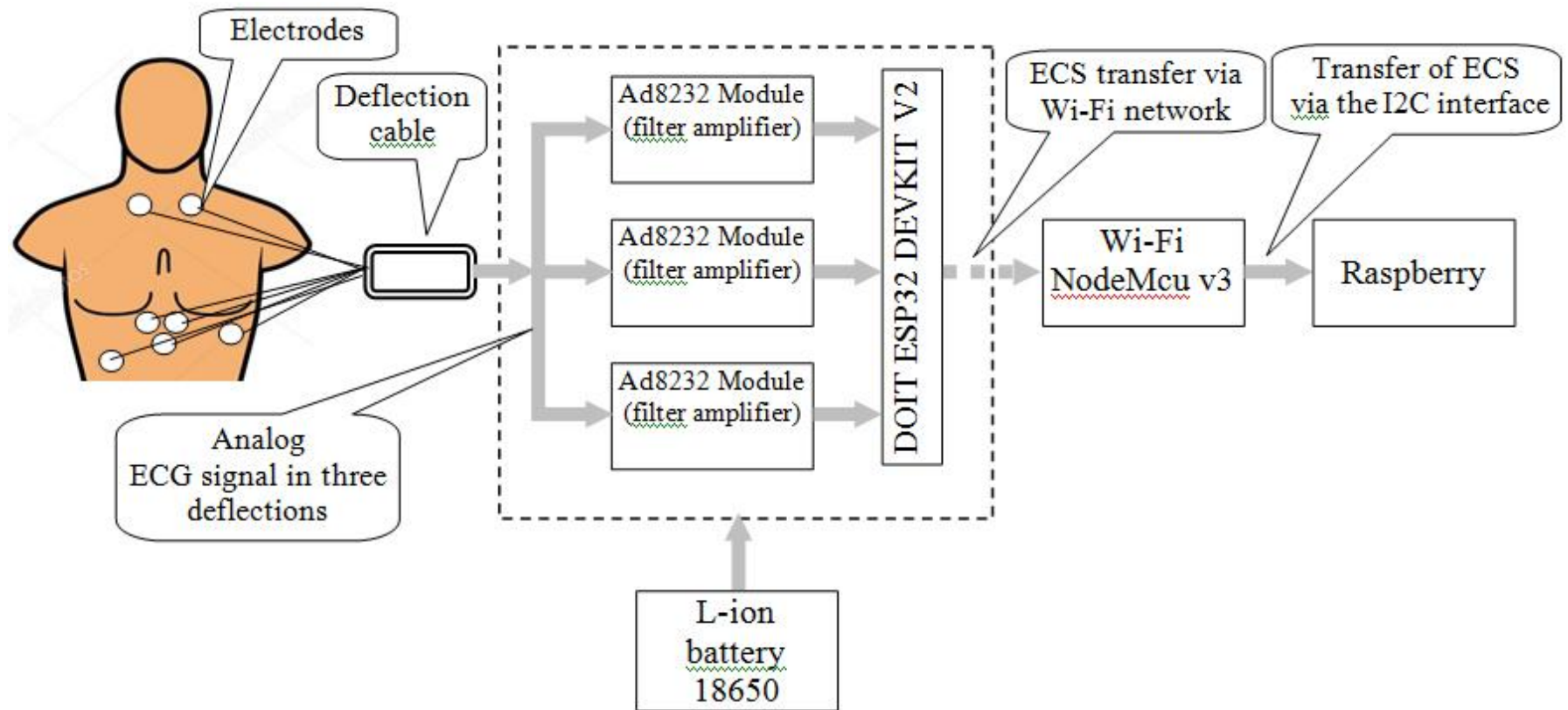
# **WIRELESS HOLTER MONITORING SYSTEM WITH A DUAL-CORE PROCESSOR**

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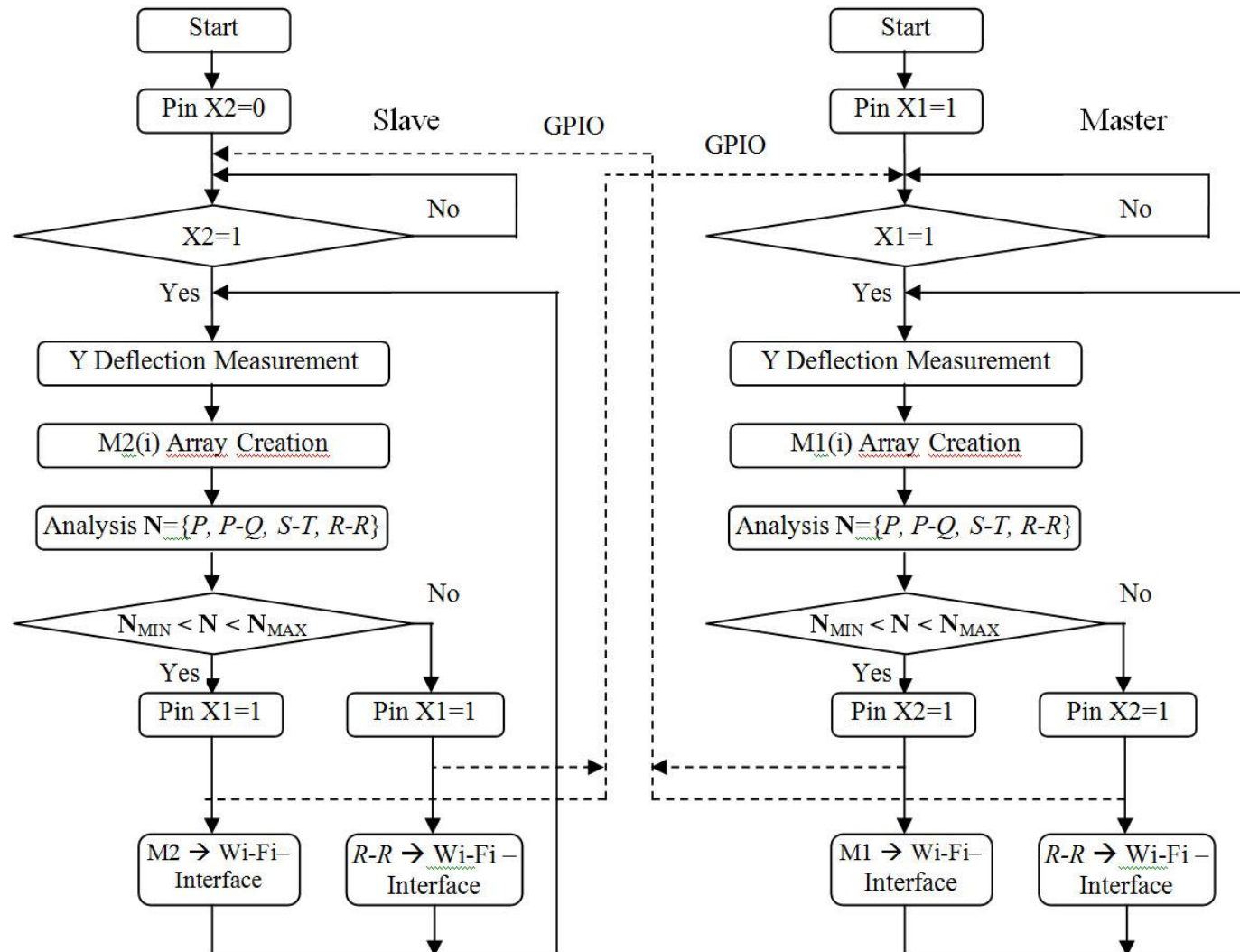
# Functional diagram of a single-channel Holter monitoring system



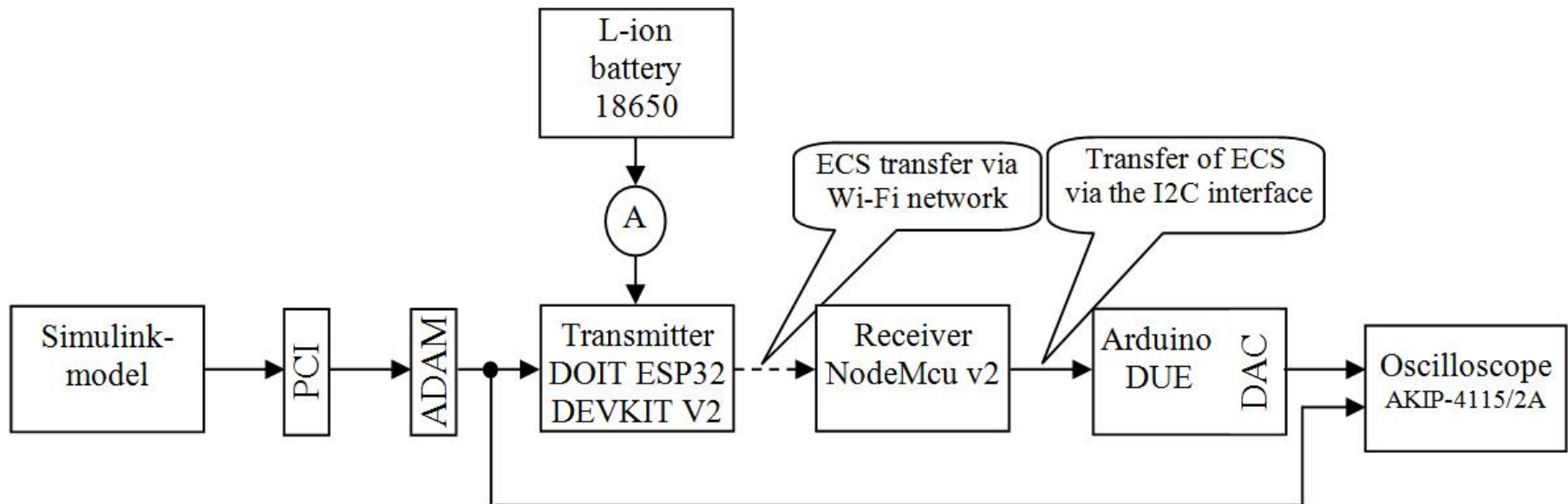
# Functional diagram of the three-channel two-processor Holter monitoring system



# ECG transmission algorithm for single-channel Holter monitoring system



# Semi-realistic model of the Holter monitoring system



# Experimental complex of the Holter monitoring System

- 1 – Simulink-model for transmitting an ECG signal recorded in the Workspace working memory to the output pins of the PCI-1710HG Board;
- 2 – graph of the ECG signal;
- 3 – waveform of the ECS signal;
- 4 – ECS oscillogram at the DAC output of the Arduino;
- 5 – ADAM-3968 connector;
- 6 – Arduino DUE;
- 7 – DOIT ESP32 DEVKIT V2 Wi-Fi transmitter;
- 8 – NodeMcu v2 Wi-Fi receiver;
- 9 – 18650 I-ion battery to power the Wi-Fi transmitter;
- 10 – ammeter.

