



Thank you for your recent purchase. You will find download links for the software, programming guide, and wiring guide below.

Smart – Coffee software: [DOWNLOAD](#)

(Future software updates can be downloaded using the same link)

Compatible sensors:

You can also find a list of hardware and sensors with purchasing links on the Smart – Coffee forum page by [CLICK HERE](#)

Bug reporting:

If you find a bug in the code or have any hardware issues with the Smart Coffee PCB, please send an email to mail@schematix.co.nz

Have a suggestion?

If there is a feature you'd like to see added to Smart - Coffee, let us know. You might be fortunate and see it in a future software update.

Default pinout:

Master ESP32:

- GPIO13 - RELAY 3 (relay control output)
- GPIO14 – RELAY 1 (relay control output)
- GPIO16 – UART RX (Connected to slave UART TX pin)
- GPIO17 – UART TX (Connected to slave UART RX pin)
- GPIO19 – RELAY 2 (relay control output)
- GPIO22 – SDA (to OLED display)
- GPIO22 – SCL (to OLED display)
- GPIO25 – HX711 DOUT input (Loadcell amplifier) or Flow meter 1 signal input
- GPIO26 – HX711 SCK input (Loadcell amplifier) or Flow meter 2 signal input
- GPIO27 – PUMP (relay control output)
- GPIO32 – ELEMENT 1 (relay control output)

- GPIO33 – RELAY 4 (relay control output)
- GPIO34 – PRESSURE TRANSDUCER 3 (0~3.3VDC input signal)
- GPIO35 – PRESSURE TRANSDUCER 1 (0~3.3VDC input signal)
- GPIO36 – BREW/PUMP SWITCH (connect to GND to activate switch)
- GPIO39 – ESPRESSO SWITCH (connect to GND to activate switch)

SLAVE ESP32:

- GPIO14 – TEMP 2 CS (CS pin from MAX31865)
- GPIO13 – RESERVOIR (Touch sensitive probe/float switch for water level detection)
- GPIO16 – UART TX (Connected to master UART RX pin)
- GPIO17 – UART RX (Connected to master UART TX pin)
- GPIO18 – TEMP CLK (connected to CLK pins from MAX31865 temp sensors)
- GPIO19 – TEMP SDI (connected to SDI pins from MAX31865 temp sensors)
- GPIO21 – TEMP 1 CS (CS pin from MAX31865)
- GPIO23 – TEMP SDO (connected to SDO pins from MAX31865 temp sensors)
- GPIO25 – TRIGGER (to PWM ultrasonic distance sensor)
- GPIO26 – ECHO (to PWM ultrasonic distance sensor)
- GPIO27 – ELEMENT 2 (relay control output)
- GPIO32 – PROBE 1 (Boiler 1 touch sensitive probe for water level detection)
- GPIO33 – PROBE 2 (Boiler 2 touch sensitive probe for water level detection)
- GPIO35 – PRESSURE TRANSDUCER 2 (0~3.3VDC input signal)