Gmail **Marc Serra Peralta <marcserraperalta@gmail.com>**

[waveshare support] Re: Information about E-paper ESP32 Driver Board

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waveshare support <support@waveshare.com> 12 d'agost del 2025, a les 12:55
Per a: marcserraperalta@gmail.com

Your request (209793) has been updated. To add additional comments, reply all to this email.
Note that this platform/email (support@waveshare.com) is intended for technical support.
For orders, quotations, shipping, or other related information, please contact sales@waveshare.com directly.

Xin-kang
Aug 12, 2025, 10:55 UTC

1) All unmarked pins on the e-paper ESP32 driver board can be used as general-purpose GPIOs, and some pins support I2C/SPI functionality. Consult the ESP32 chip manual for specific pin functions. For example, GPIO21/22 are typically I2C interfaces by default.

2) The BME280 sensor can be connected to the ESP32 driver board via I2C or SPI. We recommend using the I2C interface, connecting the corresponding SCL/SDA pins and ensuring that the power supply voltages match.

3) This solution is feasible: The ESP32 can read temperature data from the BME280 and display it on the e-paper display through the driver board. You will need to write your own code to configure I2C communication and the e-paper refresh logic. For example code, refer to the driver library provided on the Wiki.

Best regards!

Visitor 996838349328
Aug 08, 2025, 07:55 UTC

Dear Sir/Madam,

I am planning to buy your "E-Paper ESP32 Driver Board", but I am a little bit confused about the PIN functionality. I plan on attaching the BME280 sensor (which requires I2C or SPI) to the ESP32. In the PIN diagram and pictures, most of the PINs do not have any description (the only ones that have are the ones used for connecting to the e-paper display). I would like to know if the other PINs can be used and if so, what their functionality is (e.g. GPIO, I2C, SPI...).
Can I use this ESP32 to control (as a master) the BME280 sensor, read the temperature from the sensor, and display this temperature on an e-paper?

Thanks in advance,

Marc