

USB Serial

E-Paper Display

The diagram illustrates the internal components and pin connections of the ESP32 module. The central component is the ESP32 chip, which is connected to various external components and test points.

Internal Components:

- ESP32:** The main microcontroller unit.
- ESP32WROOM32:** A module containing the ESP32 chip and external components like a crystal oscillator and memory.
- Test Points:** TP125, TP132, TP133, TP134, TP135, TP136, TP137, TP138, TP139, TP140, TP141, TP142, TP143, TP144, TP145, TP146, TP147, TP148, TP149, TP150, TP151, TP152, TP153, TP154, TP155, TP156, TP157, TP158, TP159, TP160, TP161, TP162, TP163, TP164, TP165, TP166, TP167, TP168, TP169, TP170, TP171, TP172, TP173, TP174, TP175, TP176, TP177, TP178, TP179, TP180, TP181, TP182, TP183, TP184, TP185, TP186, TP187, TP188, TP189, TP190, TP191, TP192, TP193, TP194, TP195, TP196, TP197, TP198, TP199, TP200, TP201, TP202, TP203, TP204, TP205, TP206, TP207, TP208, TP209, TP210, TP211, TP212, TP213, TP214, TP215, TP216, TP217, TP218, TP219, TP220, TP221, TP222, TP223, TP224, TP225, TP226, TP227, TP228, TP229, TP230, TP231, TP232, TP233, TP234, TP235, TP236, TP237, TP238, TP239, TP240, TP241, TP242, TP243, TP244, TP245, TP246, TP247, TP248, TP249, TP250, TP251, TP252, TP253, TP254, TP255, TP256, TP257, TP258, TP259, TP260, TP261, TP262, TP263, TP264, TP265, TP266, TP267, TP268, TP269, TP270, 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Pager motor

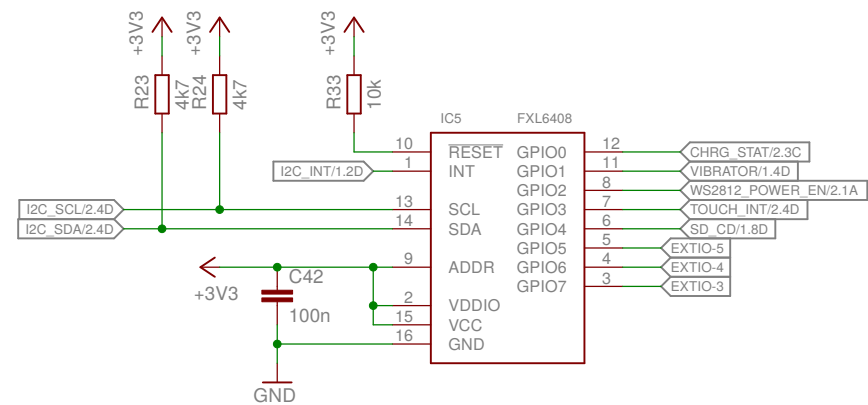
The diagram shows a circuit for driving a pager motor. A green line represents the power rail, starting from a GND symbol at the bottom. A red line represents the signal path. A component labeled 'VIBRATOR/3.3A' is connected to the signal path through a resistor R11 (10k). The signal path then passes through a transistor Q2 (MMBT2222A) and a motor M1 (MOTOR10MM) before reaching a 27R resistor R2 and finally VCC.

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graph BT; GND --> Q2; Q2 --> M1; M1 --> R2; R2 --> VCC; VIBRATOR_33A[VIBRATOR/3.3A] -- R11_10k[R11 10k] --> Q2;
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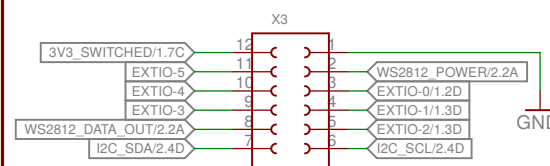
SD card

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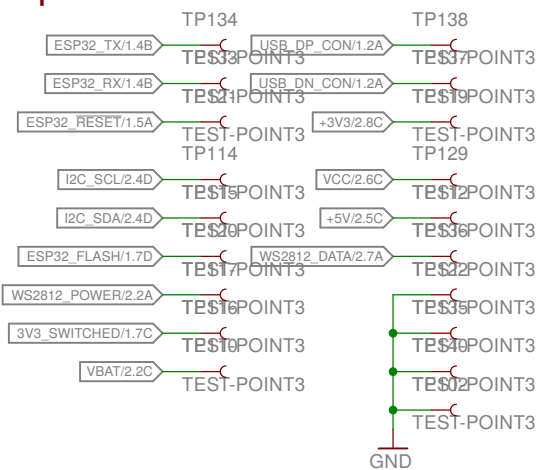
Port Expander



IO header



Test points



Special Vias with thermals (hack)

