

The diagram illustrates the hardware setup for an ARM -- SL030 system. It features two main components: the SL030 module and the LM3S6000 microcontroller.

SL030 Module: A yellow rectangular component with the following pins and connections:

- OUT:** Pin 5, connected to the SDA pin of the LM3S6000.
- SDA:** Pin 3, connected to the SDA pin of the LM3S6000.
- SCL:** Pin 4, connected to the SCL pin of the LM3S6000.
- IN:** Pin 2, connected to the WAKEUP pin of the LM3S6000.
- VDD:** Pin 1, connected to a 3V power source.
- GND:** Pin 6, connected to ground.

LM3S6000 Microcontroller: A yellow rectangular component with numerous pins. Key connections include:

- PC5, PC6, PC7, OSC, GND, VDD, PA0, PA1, PA2, PA3, PA4, PA5, PD0, PD1, PD2, PD3, PD4, PD5, PD6, PD7, PB0, PB1, PB2, PB3, PB4, PB5, PB6, TRST, TCK, TMS, TDI, TDO:** These pins are connected to various external components and the SL030 module.
- WAKEUP:** Connected to the IN pin of the SL030 module.
- CARDIN:** Connected to the IN pin of the SL030 module.

External Components:

- 3V Power Source:** Connected to the VDD pin of the SL030 module and the VDD pin of the LM3S6000.
- 6MHz Oscillator (X1):** Connected to the OSC pin of the LM3S6000.
- Capacitors (C1, C2, C3, C4):** Connected to the OSC pin of the LM3S6000 and the VDD pin of the LM3S6000.
- Resistor (R1, 5.1K):** Connected to the VDD pin of the LM3S6000 and the IN pin of the SL030 module.
- Diode (D1, IN4148):** Connected to the VDD pin of the LM3S6000 and the IN pin of the SL030 module.