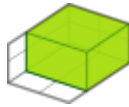




## Tibbit Module

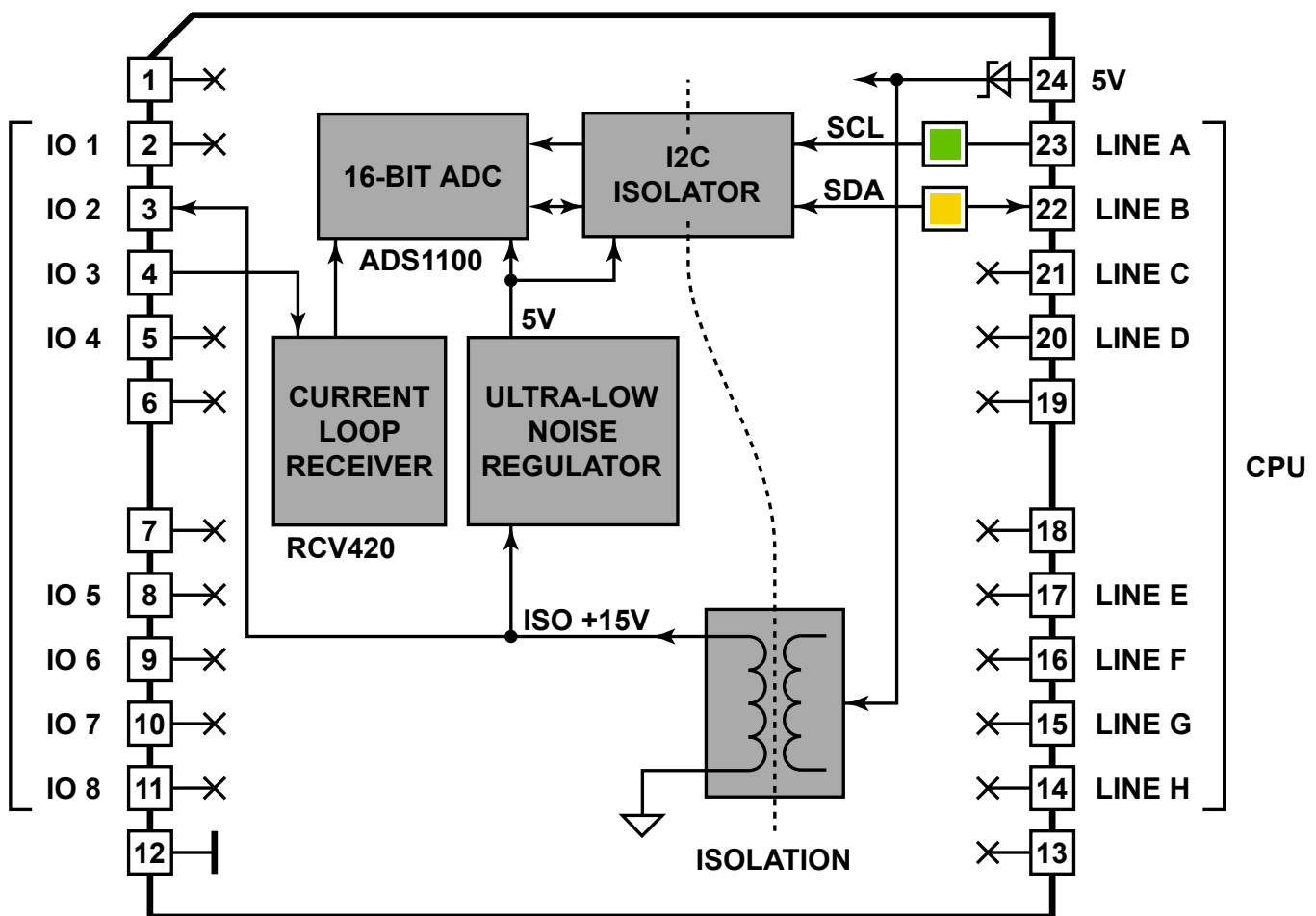
#53



M2T

## Isolated 4-20mA ADC

Two-channel isolated ADC with 4 ~ 20mA range.

**Form:** M2T**Power:**

- 5V - Consumes 100mA

**Mates with:** #19, #20, #21

## Details

This ADC Tibbit uses an RCV420 current loop receiver front-end and an ADC1100 16-bit analog-to-digital converter IC. To lower noise and improve resolution, this Tibbit has its own isolated power domain.

The full-scale conversion error for this Tibbit does not exceed 2%, and the effective flicker-free resolution is 15 bits.

Combine this Tibbit with #21 (four terminal blocks), #20 (nine terminal blocks) or #19 (DB9M connector). It's not common but possible to use the latter for wiring into the meter's inputs.

## LEDs

There is one red and one yellow LED. The red LED is connected to the SCL line of the I2C interface; the yellow LED – to the SDA line.

## Sample project

The use of this Tibbit is illustrated by a Tibbo BASIC test project. You can find it here:

<https://github.com/tibbotech/CA-Test-Tibbit-53>.

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Tibbit Module

