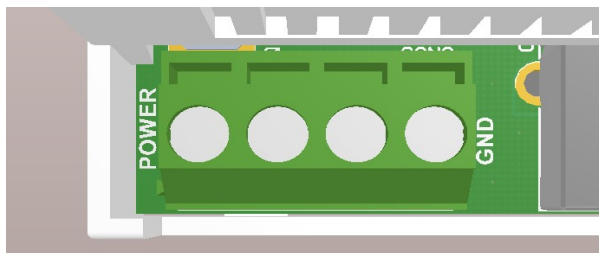


## houseCat Gateway



## Power



The power supply must be rated to deliver the current for the houseCat together with all the extra loads connected to the outputs.

It is advisable to install a fuse in series with the input power cables rated 10% above the normal load current.

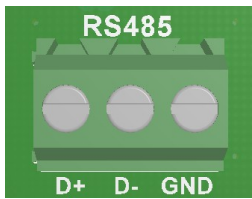
The houseCat has two power and two ground connections. The second connection can be used to feed power to other peripherals that are connected to the houseCat device taking into consideration the maximum load current of the connector terminals (15A).

## Info

The houseCat Gateway is an ESP32 powered centralized home automation controller.

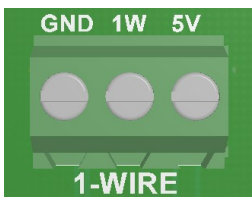
<b>Specifications</b>	
Power Supply	24V
Power usage	50mA
Digital Inputs	64 x 24V
Digital Outputs	64 x 24V – 100mA each (Up to 500mA for 10s)
Analog Outputs	8 x 0-10V
Interfaces	USB (Serial Port) Ethernet WiFi RS485 (Half Duplex) 1-Wire
CE Compliance	The houseCat Gateway is CE compliant when installed in a shielded and earthed metal case.
Operating Temperature	-20 – 85°C
Size (LxWxH)	212x90x58mm
<b>Connectors</b>	
Power	Wire 12 to 30AWG 0.0509 to 3.31 mm <sup>2</sup> Current rating: 15A

## RS485

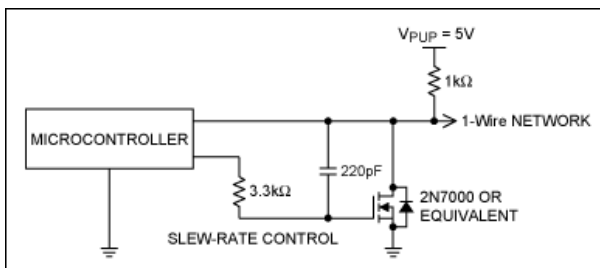


The half duplex RS485 can be used to communicate with Modbus, DMX512 or custom protocol devices.

## 1-Wire

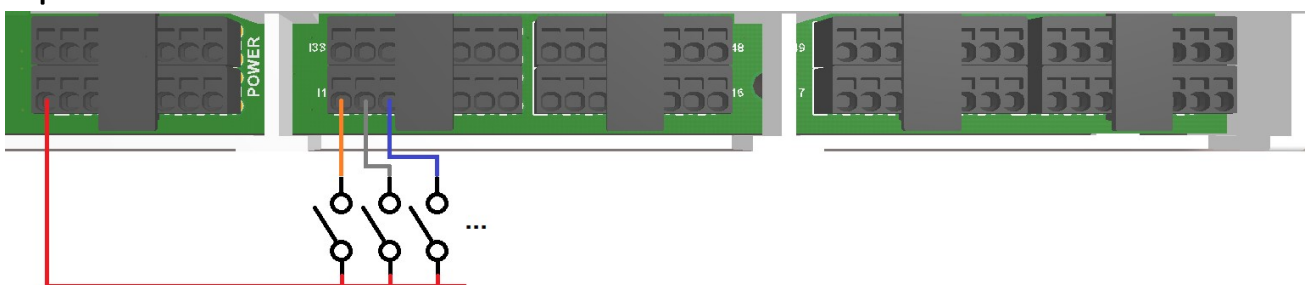


1-Wire can be used to communicate with Analog Devices 1-Wire devices (e.g. Temperature sensors). It uses an extra low-side switch mosfet for generating correct slew rates on long cable runs to the 1-Wire devices.



The 5V can be used to power 1-Wire devices that can't function on parasitic power solely at a maximum of 50mA total.

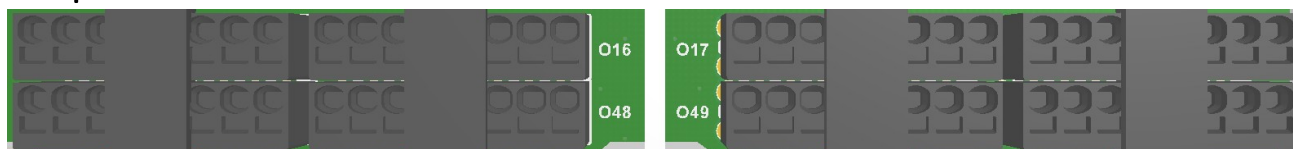
## Inputs



The power terminals next to the input terminals supply 24v that can be used to power switches or other potential free contacts that are connected to the input terminals.

Generally a multi core cable is run by a number of switches in the building where one of the cores is powered by the power terminal providing power to all the switches connected to the other cores in the cable.

## Outputs



The outputs can be used to drive 24V relays, actuators, solenoids, or any load up to a continuous current of 100mA per output.

The outputs will put out a voltage of 24V when enabled, a common ground for the loads can be taken from the ground at the power connector or straight from the power supply,

## Analog Outputs (0-10V)



The 0-10V analog outputs can be used to drive a 0-10V dimmer.

The resolution of the analog outputs is 12 bit.

The AO1 to AO8 terminals contains the analog outputs. The GND terminals can be connected to the reference ground of the dimmer.