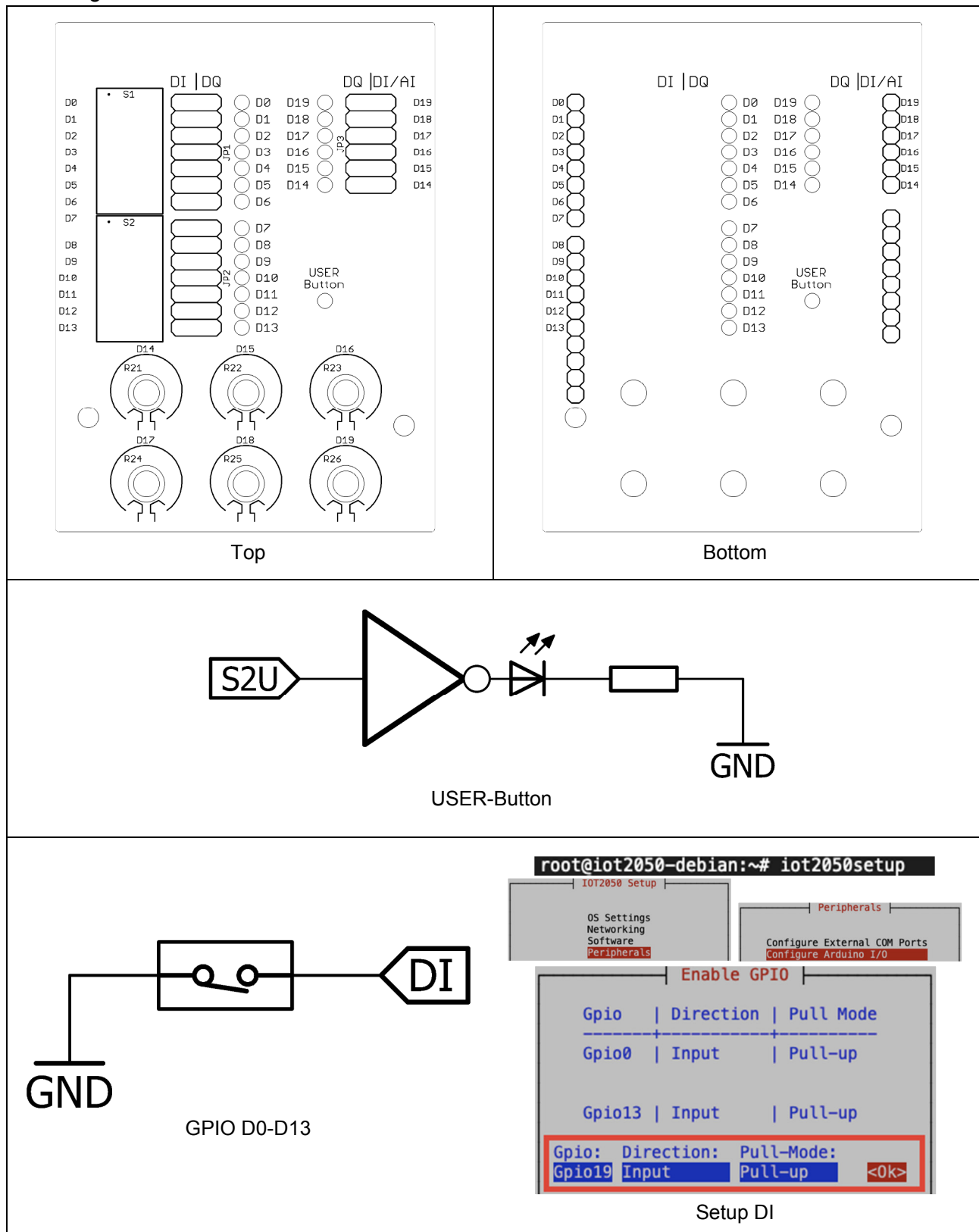




## IoT20x0IoTTestboard Kit

### PIN assignment





IoT20x0IoTTestboard  
Kit

GPIO D14-D19

```
root@iot2050-debian:~# iot2050setup
```

IOT2050 Setup

OS Settings  
Networking  
Software  
Peripherals

Peripherals

Configure External COM Ports  
Configure Arduino I/O

Enable GPIO

| Gpio   | Direction | Pull Mode |
|--------|-----------|-----------|
| Gpio14 | Input     | Pull-up   |
| Gpio19 | Input     | Pull-up   |

Gpio: Direction: Pull-Mode:  
Gpio19 Input Pull-up <Ok>

Enable GPIO

| Gpio   | Direction | Pull Mode |
|--------|-----------|-----------|
| Gpio14 | Input     | Pull-down |
| Gpio19 | Input     | Pull-down |

Gpio: Direction: Pull-Mode:  
Gpio14 Input Pull-down <Ok>

Setup DI

Enable ADC on I014-I019

[\*] ADC 0  
[\*] ADC 1  
[\*] ADC 2  
[\*] ADC 3  
[\*] ADC 4  
[\*] ADC 5

Setup AI

GPIO D0-D19

```
root@iot2050-debian:~# iot2050setup
```

IOT2050 Setup

OS Settings  
Networking  
Software  
Peripherals

Peripherals

Configure External COM Ports  
Configure Arduino I/O

Enable GPIO

| Gpio   | Direction | Pull Mode |
|--------|-----------|-----------|
| Gpio0  | Output    | Hiz       |
| Gpio19 | Output    | Hiz       |

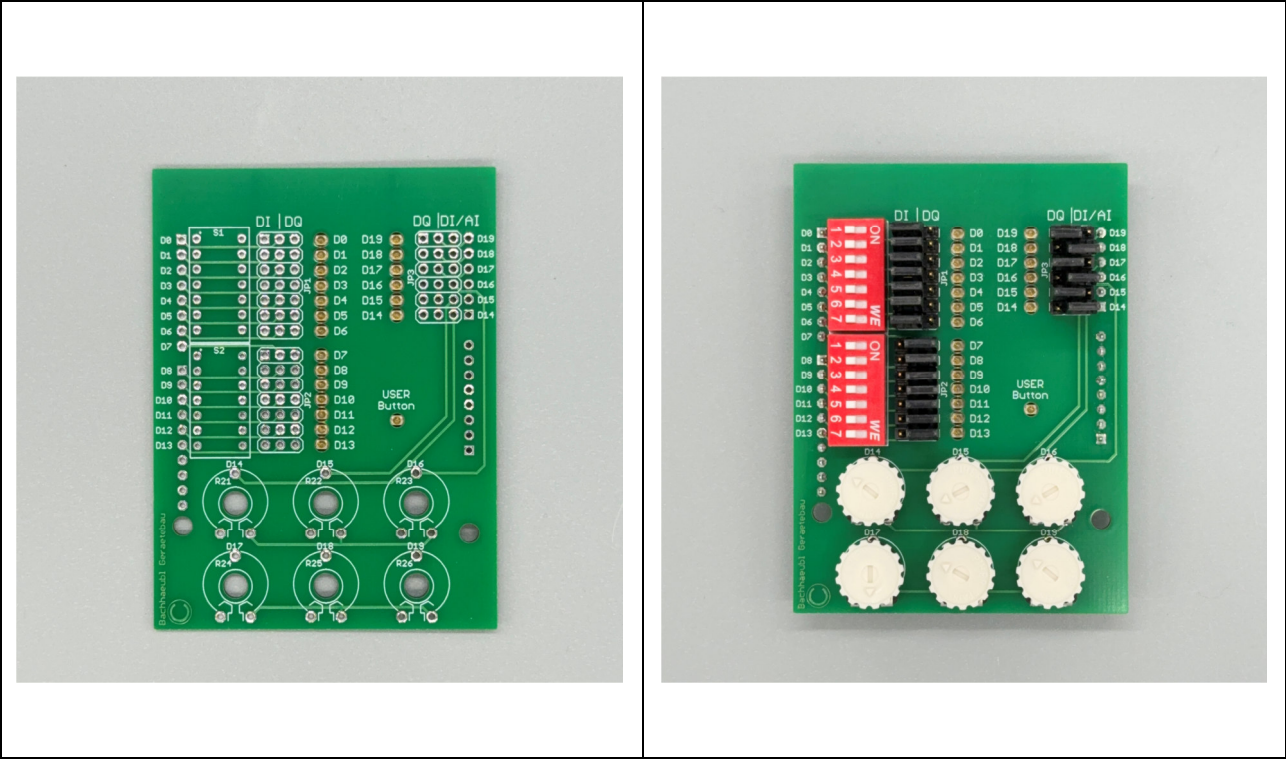
Gpio: Direction: Pull-Mode:  
Gpio19 Output Hiz <Ok>

Setup DQ



IoT20x0IoTTestboard  
Kit

Pictures



Disclaimer, safety regulations and installation notes

Please read this manual carefully. Bachhaeubl Geraetebau assumes no liability for any damage or consequential damage resulting from improper assembly, incorrect use, or operation outside the technical specifications.

According to DIN VDE 0869, any person who assembles the kit, puts a resulting assembly into operation, or passes it on or distributes it is considered the manufacturer. As the manufacturer, you are required to include all accompanying documentation when passing it on, provide your full address and comply with all legally required obligations (e.g. CE conformity, safety and labeling requirements, or comparable regulatory provisions). Assemblies created from kits must be regarded as industrial products in terms of safety requirements.

Liability on the part of Bachhaeubl Geraetebau for damage resulting from proper and/or improper handling of electrical voltages, the kit, and/or the assembly is excluded. Liability on the part of Bachhaeubl Geraetebau is likewise excluded for damage caused by tools that generate heat or by other components that develop heat during operation and/or cooling.

- 1 The kit may only be operated with low voltage in accordance with the technical specifications.
- 2 Ensure correct polarity for all components.
- 3 Improper wiring or incorrect voltages may damage the assembly or any connected devices.
- 4 The kit is not suitable for children and may only be used under the supervision of qualified personnel.
- 5 When soldering, ensure proper handling of tools and adequate ventilation.
- 6 Do not use the kit in environments containing flammable gases, vapors, or dust.
- 7 Repairs to the assembly may only be carried out by qualified personnel.
- 8 Do not make any modifications that are not described in the manual.

Note the following:

- The manufacturer assumes no liability for damages or malfunctions resulting from failure to follow this manual.



## IoT20x0IoTtestboard Kit

|  |                                                                                                                                                                                          |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Before startup please ensure:</p> <ul style="list-style-type: none"><li>• Observe the national safety and accident prevention regulations.</li></ul>                                  |
|  | <p>NOTE: Danger if used improperly!</p> <ul style="list-style-type: none"><li>• The device is a built-in device.</li><li>• Observe mechanical and thermal limits.</li></ul>              |
|  | <ul style="list-style-type: none"><li>• The device may only be used for its intended use.</li></ul>                                                                                      |
|  | <p>NOTE: Electrostatically sensitive components!</p> <ul style="list-style-type: none"><li>• Contains parts and assemblies that can be damaged by electrostatic discharge ESD.</li></ul> |

### Soldering instructions

If you are not yet very experienced with soldering, read the soldering instructions first.

1. Never use soldering water or soldering grease when soldering the kit. Otherwise the function is not guaranteed due to the acid it contains.
2. Only electronic soldering tin may be used, e.g. SN 60 Pb or, even better, lead-free electronic soldering tin.
3. Use a small soldering tip that is free of scale so that the heat can be dissipated well. After each soldering, remove excess solder from the soldering tip with a damp sponge.
4. The soldering should be carried out quickly, because soldering for too long will destroy components and there is a risk that the soldering eyes will come off.
5. Heat the solder joint so that the conductor track and the component wire can be heated at the same time. Immediately add some solder as soon as the solder begins to flow, remove the soldering iron from the soldering point once the solder has flowed well.
6. The soldering point should not be moved for several seconds so that the solder can cool down. The soldering point is perfect if the soldering point is shiny silver.
7. After soldering, cut the connecting wires directly above the soldering point with side cutters.
8. When soldering semiconductors, keep the soldering time as short as possible and pay attention to the polarity of the components.
9. After equipping, check whether all components are inserted correctly and polarized. Also check whether any soldering points have been accidentally bridged.
10. Please note that improper soldering, incorrect connections, incorrect operation and assembly errors are beyond our control.



## IoT20x0IoTtestboard Kit

### Scope of delivery

|     |                                    |
|-----|------------------------------------|
| 1x  | PCB                                |
| 1x  | Pin header THT 1x6                 |
| 2x  | Pin header THT 1x8                 |
| 1x  | Pin header THT 1x10                |
| 1x  | Pin header THT 3x6                 |
| 2x  | Pin header THT 3x7                 |
| 20x | Jumper                             |
| 2x  | DIP switch                         |
| 6x  | Rotary potentiometer PT10          |
| 6x  | Potentiometer knob PT10            |
| 4x  | M3x6 lens head screw               |
| 2x  | M3x11 distance bolts inside/inside |

### Attachment

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We, Bachhaeubl Geraetebau, assume no liability for incorrect information or their consequences.

#### Consumer information on the collection and disposal of old electrical devices and used batteries



Electrical and electronic devices must not be disposed of with household waste! At the end of its life, dispose of the product in accordance with applicable legal regulations. Collection points have been set up where you can hand in electrical equipment free of charge. By properly disposing of electrical appliances and batteries, you help protect valuable resources and prevent possible negative effects on human health and the environment that could otherwise occur as a result of improper waste disposal. Your municipality will inform you where such collection points are located.

