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451PCBCOM (PCB) is a TRON TRC-20 token used for open source hardware diffusion and distribution.

PCB token will be distributed to the community which support open source hardware. If you hold a PCB token, you are a member of our community of supporters.

## **1.- Usability**

The PCB token is distributed to reward our community with tokens which can be held or exchanged to win community reputation (check holders ranking with the smart contract info link) and rewards as open source hardware.

The PCB token can be used to participate in our community of open source hardware supporters with the TRON decentralized blockchain ecosystem of message boards, forums, chats, lists, file and code sharing, vote about decisions, etc.

The PCB token can be exchanged for physical open source hardware and use the TRC-20 token for securize the righth receipt of the hardware, including between our community members of PCB token holders.

This PCB token of open source code will close the process of desing open souce hardware with open source code using this token to distribute the physical hardware maked by the community of open source hardware supporters.

The amount of tokens in circulation never will be more than the amount of all physical Printed Circuit Boards in stock ready to send as a reward to our community members, because the PCB tokens will be changed for physical open source hardware Printed Circuit Boards as our "451PCB Protoshield Board for Arduino" which give to the PCB token the value 1 to 1, so ever one PCB token will be exchanged by 451PCB.COM for the reward of one Protoshield Board (shipping cost included). The PCB token will be exchanged for more kind of open source hardware with diferent values when it will be make.

With the PCB token our community of supporters will set the value of the open soure hardware distributed by 451PCB or between the community members whose can use the PCB token for exchange some open source hardware, TRX and TRON tokens, including the opcion of the smart contract used as a deposit escrow account for the swap, exchange or distribution securized by 451PCB in some cases when it's necessary.

## **2. - Roadmap**

We will continue rewarding our community of supporters with free PCB tokens, but never with more than our stock of physical hardware boards which is the PCB token circulating supply.

### **2019-2020**

We will publish the open source hardware code of the "451PCB Protoshield board v2 and v2.1". Other open source hardware code by the community is wellcome.

Then we will distribute some physical boards of open source hardware to our communtiy of supporters and PCB token hoders.

### **2020**

During the year 2020 will improbe our web page, publishing more info about our open source hardware, documents, pictures and use examples for the community and with their collaboration.

Then we will distribute more physical boards of open source hardware to our community of supporters and PCB token hoders.

### 3.- PCB Token Info

100.000.000 units of 451PCBCOM (PCB) TRC20 tokens have been made with this TRON smart contract address:

TJzcEaqgYk9g4jZLEsB2DksLGikM4dWwYJ

All the smart contract info can be checked in [tronscan.org](https://tronscan.org):

<https://tronscan.org/#/token20/TJzcEaqgYk9g4jZLEsB2DksLGikM4dWwYJ>

The solidity code of the PCB token is open source code too:

<https://github.com/451PCBCOM/PCB-TRC20/blob/master/CODE/PCB.sol>

The PCB token creator address and the smart contract in the TRON Blockchain is under the control of 451PCB.COM which is a NON-Profit association for diffusion of open source hardware, art and technology.

As in all the TRC-20 tokens, all the token holder addresses and balances are public on the Tron Network, as the events of transfers, approvals, spenders, deposits, withdraws or token burnings. So the community will follow the token activity.

The use of this PCB TRC-20 token have a 5% of the necessary execution cost of tron energy is discounted to the user and the other 95% of the energy cost is supported by the PCB token creator to avoid spam and other security purposes. It is a user cost of around 500 to 1500 units of energy for the smart contract execution, amount of energy which is recovered in a short time, so the smart contract execution is free for the user with some TRX frozen for energy. If the user haven't got the necessary energy with his frozen TRX, the transfer will cause the burn of a little amount of TRX to cover the energy cost, as with all TRC-20 tokens.

## 4.- About us

451PCB.COM is the web page of a legalized NON-Profit association based in Spain which is self financed by members donatives and if necessary, with the open source hardware distribution to our members.

Our community of members and supporters is formed by the PCB token holders. The ranking of token holders will be checked in the token info link.

451PCB.COM doesn't store the users private data. So, all user private data sent to us will be readed, used and destroyed for preserve the privacy rights of the users and our community. When we have access to data stored in other platforms it will be managed by their own rights.

451PCB.COM can't take actions against people who test our codes, including searching for code vulnerabilities, but our network providers will take their own actions. Any way, we can't give them any info or data related because we don't store it, because we don't need it, our code is secure, our code is law.

If you have any question about the 451PCBCOM (PCB) TRC-20 token, don't hesitate to contact with us sending an e-mail to:

[info@451pcb.com](mailto:info@451pcb.com)

For more info visit [www.451pcb.com](http://www.451pcb.com) or [www.tronscan.org](http://www.tronscan.org) and join us.

