
What is claimed is:

1. An implementation method of a multifunctional MCU, comprises steps of:
 - acquiring a function operation instruction input by a user; and
 - scanning a fingerprint of the user and performing identity authentication on the user according to the fingerprint, if an operation corresponding to the function operation instruction is authentication;
 - storing data information into a preset storage space, if an operation corresponding to the function operation instruction is data information storage;
 - charging a preset device, if an operation corresponding to the function operation instruction is charging.
2. The implementation method as claimed in claim 1, wherein the method also comprises:
 - transmitting data during preset devices, if an operation corresponding to the function operation instruction is data transmission.
3. The implementation method as claimed in claim 1, wherein the method also comprises:
 - generating a public key and a private key according to the fingerprint of the user, and transmitting the public key to a preset storage space and storing the private key to a preset storage space, if an operation corresponding to the function operation instruction is key generation.
4. The implementation method as claimed in claim 3, wherein the method further comprises:
 - encrypting preset communication information or a preset communication file by means of the public key, and transmitting the encrypted communication information or communication file to a receiving terminal, if an operation corresponding to the function operation instruction is encryption.
5. The implementation method as claimed in claim 3, wherein the method further comprises:
 - decrypting encrypted communication information or an encrypted

communication file by means of the private key to obtain decrypted communication information or a decrypted communication file, if an operation corresponding to the function operation instruction is decryption.

6. The implementation method as claimed in claim 1, wherein the method also comprises:

locking a preset screen if an operation corresponding to the function operation instruction is screen locking.

7. The implementation method as claimed in claim 1, wherein the method also comprises:

locking a preset application program if an operation corresponding to the function operation instruction is application program locking.

8. The implementation method as claimed in claim 1, wherein the method also comprises:

scanning a preset fingerprint and opening an application program corresponding to the preset fingerprint, if an operation corresponding to the function operation instruction is setting different application programs to be controlled by different fingerprints.

9. The implementation method as claimed in claim 1, wherein the method also comprises:

displaying a time setup interface of encrypted information or a time setup interface of decrypted information, if an operation corresponding to the function operation instruction is setting view time of encrypted information or display time of decrypted information.

10. The implementation method as claimed in claim 1, wherein the method also comprises:

operating a corresponding external device according to a preset operation process, if an operation corresponding to the function operation instruction is operating an external device.

11. The implementation method as claimed in claim 1, wherein the method also

comprises:

acquiring shopping information of the user and confirming the shopping information to generate a confirmation receipt, if an operation corresponding to the function operation instruction is information confirmation.

12. The implementation method as claimed in claim 1, wherein after acquiring a function operation instruction input by a user the method also comprises steps of:

inquiring a corresponding relationship between the preset function operation instruction and operations;

judging if an operation corresponding to the function operation instruction is inquired;

judging the type of the operation corresponding to the function operation instruction, if the judging result for inquiry is yes;

scanning a fingerprint of the user and performing identity authentication on the user according to the fingerprint, if the type of the operation corresponding to the function operation instruction is authentication;

storing data information into a preset storage space, if the type of the operation corresponding to the function operation instruction is data information storage;

charging a preset device, if the type of the operation corresponding to the function operation instruction is charging.

13. A multifunctional MCU, comprises:

an acquisition module, for acquiring a function operation instruction input by a user;

an authentication module, which is used for scanning a fingerprint of the user and performing identity authentication on the user according to the fingerprint, when an operation corresponding to the function operation instruction acquired by the acquisition module is authentication;

a storing module, which is used for storing data information into a preset storage space, when an operation corresponding to the function operation instruction acquired by the acquisition module is data information storage; and

a charging module, which is used for charging a preset device, when an operation corresponding to the function operation instruction acquired by the acquisition module is charging.

14. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

a first transmission module, which is used for transmitting data during preset devices, when an operation corresponding to the function operation instruction acquired by the acquisition module is data transmission.

15. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

a key generation module, which is used for generating a public key and a private key according to the fingerprint of the user, and transmitting the public key to a preset storage space and storing the private key to a preset storage space, when an operation corresponding to the function operation instruction acquired by the acquisition module is key generation.

16. The multifunctional MCU as claimed 15, wherein the MCU further comprises:

an encryption module, which is used for encrypting preset communication information or a preset communication file by means of the public key, and transmitting the encrypted communication information or communication file to a receiving terminal, when an operation corresponding to the function operation instruction acquired by the acquisition module is encryption.

17. The multifunctional MCU as claimed 15, wherein the MCU further comprises:

a decryption module, which is used for decrypting encrypted communication information or an encrypted communication file by means of the private key to obtain decrypted communication information or a decrypted communication file, when an operation corresponding to the function operation instruction acquired by the acquisition module is decryption.

18. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

a screen locking module, which is used for locking a preset screen when an operation corresponding to the function operation instruction acquired by the acquisition module is screen locking.

19. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

a program locking module, which is used for locking a preset application program, when an operation corresponding to the function operation instruction acquired by the acquisition module is application program locking.

20. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

an opening module, which is used for scanning a preset fingerprint and opening an application program corresponding to the preset fingerprint, when an operation corresponding to the function operation instruction acquired by the acquisition module is setting different application programs to be controlled by different fingerprints.

21. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

a time setup module, which is used for displaying a time setup interface of encrypted information or a time setup interface of decrypted information, when an operation corresponding to the function operation instruction acquired by the acquisition module is setting view time of encrypted information or display time of decrypted information.

22. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

an external module, which is used for operating a corresponding external device according to a preset operation process, when an operation corresponding to the function operation instruction acquired by the acquisition module is operating an external device.

23. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

a confirmation module, which is used for acquiring shopping information of the user and confirming the shopping information to generate a confirmation receipt, when an operation corresponding to the function operation instruction acquired by the acquisition module is information confirmation.

24. The multifunctional MCU as claimed 13, wherein the MCU also comprises:

an inquiry module, which is used for inquiring a corresponding relationship between the preset function operation instruction and operations, when the function

operation instruction input by the user is acquired by the acquisition module;

a first judging module, which is used for judging if an operation corresponding to the function operation instruction is inquired by the inquiry module;

a second judging module, which is used for judging the type of the operation corresponding to the function operation instruction, when the judging result from the first judging module is yes;

a first notification module, which is used for notifying the authentication module to scan the fingerprint of the user and perform identity authentication on the user according to the fingerprint, when the judging result from the second judging module is that the type of the operation corresponding to the function operation instruction is authentication;

a second notification module, which is used for notifying the storing module to store data information into a preset storage space, when the judging result from the second judging module is that the type of the operation corresponding to the function operation instruction is data information storage; and

a third notification module, which is used for notifying the charging module to charge a preset device, when the judging result from the second judging module is that the type of the operation corresponding to the function operation instruction is charging.

What is claimed is:

1. An implementation method of a multifunctional Micro Control Unit (MCU), comprises steps of:

- acquiring a function operation instruction input by a user; and
- scanning a fingerprint of the user and performing identity authentication on the user according to the fingerprint;
- storing data information into a preset storage space;
- charging a preset device, if an operation corresponding to the function operation instruction is charging;
- generating a public key and a private key according to the fingerprint of the user, and transmitting the public key to a preset storage space and storing the private key to the preset storage space;
- encrypting preset communication information or a preset communication file by means of the public key;
- transmitting the encrypted communication information or communication file to the preset device;
- decrypting encrypted communication information or an encrypted communication file by means of the private key to obtain decrypted communication information or a decrypted communication file in the preset device.

2. The method according to claim 1, further comprises:

- locking a preset screen if an operation corresponding to the function operation instruction is screen locking.

3. The method according to claim 1, further comprises:

- locking a preset application program.

4. The method according to claim 1, further comprises:

- scanning a preset fingerprint and opening an application program corresponding to the preset fingerprint, if an operation corresponding to the function operation instruction is setting different application programs to be controlled by different fingerprints.

5. The method according to claim 1, further comprises:

displaying a time setup interface of encrypted information or a time setup interface of decrypted information.

6. The method according to claim 1, further comprises:

operating a corresponding external device according to a preset operation process.

7. The method according to claim 1, further comprises:

acquiring shopping information of the user and confirming the shopping information to generate a confirmation receipt.

8. The method according to claim 1, further comprises:

inquiring a corresponding relationship between the preset function operation instruction and operations;

judging the type of the operation corresponding to the function operation instruction;

scanning a fingerprint of the user and performing identity authentication on the user according to the fingerprint;

storing data information into a preset storage space;

charging a preset device, if the type of the operation corresponding to the function operation instruction is charging.

9. A multifunctional Micro Control Unit (MCU), comprises:

an acquisition module for acquiring a function operation instruction input by a user;

an authentication module for scanning a fingerprint of the user and performing identity authentication on the user according to the fingerprint;

a storing module for storing data information into a preset storage space; and

a charging module for charging a preset device.

a first transmission module for transmitting data to the preset device.

a key generation module for generating a public key and a private key according to the fingerprint of the user and transmitting the public key to the preset

storage space and storing the private key to the preset storage space.

an encryption module for encrypting preset communication information or a preset communication file by means of the public key and transmitting the encrypted communication information or communication file to the preset device.

further comprises:

a decryption module for decrypting encrypted communication information or an encrypted communication file by means of the private key to obtain decrypted communication information or a decrypted communication file in the preset device.

10. The multifunctional MCU as claimed 9, further comprises:

a screen locking module for locking a preset screen.

11. The multifunctional MCU as claimed 9, further comprises:

a program locking module for locking a preset application program.

12. The multifunctional MCU as claimed 9, further comprises:

an opening module for scanning a preset fingerprint and opening an application program corresponding to the preset fingerprint.

13. The multifunctional MCU as claimed 9, further comprises:

a time setup module for displaying a time setup interface of encrypted information or a time setup interface of decrypted information.

14. The multifunctional MCU as claimed 9, further comprises:

an external module for operating a corresponding external device according to a preset operation process.

15. The multifunctional MCU as claimed 9, further comprises:

a confirmation module for acquiring shopping information of the user and confirming the shopping information to generate a confirmation receipt.

16. The multifunctional MCU as claimed 9, further comprises:

an inquiry module for inquiring a corresponding relationship between the preset function operation instruction and operations;

a first judging module for judging if an operation corresponding to the function operation instruction is inquired by the inquiry module;

a second judging module for judging the type of the operation corresponding to the function operation instruction, when the judging result from the first judging module is yes;

a first notification module for notifying the authentication module to scan the fingerprint of the user and perform identity authentication on the user according to the fingerprint, when the judging result from the second judging module is that the type of the operation corresponding to the function operation instruction is authentication;

a second notification module for notifying the storing module to store data information into a preset storage space, when the judging result from the second judging module is that the type of the operation corresponding to the function operation instruction is data information storage; and

a third notification module for notifying the charging module to charge a preset device, when the judging result from the second judging module is that the type of the operation corresponding to the function operation instruction is charging.