WHAT IS CLAIMED IS:

1. A digital wallet device for storing and managing cryptocurrency, comprising:

a cryptocurrency management integrated circuit (IC);

a non-transitory computer readable storage medium mounted on said cryptocurrency management IC and storing a private key of a cryptocurrency and a public key of said cryptocurrency;

an output component electronically disconnected from said cryptocurrency management IC and adapted to receive a data piece indicative of a data string by a user and presenting to the user a representation of said data piece;

a keyboard or touchscreen electronically disconnected from said output component and adapted for receiving the data string from the user;

at least one processor mounted on said cryptocurrency management IC for receiving inputs only through the keyboard or touchscreen and for executing transaction code to create a transaction of said cryptocurrency based on said data string and to sign said transaction using said private key; and

a unidirectional communication hardware for sending said transaction via data travel only in one direction to a communication device for broadcasting said transaction via a network.

2. The digital wallet device of claim 1, wherein said unidirectional communication hardware includes a data diode.

3. The digital wallet device of claim 1, wherein said unidirectional communication hardware includes a presentation unit for presenting a machine-readable code encoding said transaction, to be captured by a sensor and decoded by said communication device.

4. The digital wallet device of claim 3, wherein said machine-readable code is a visual machine-readable code and said sensor is an imaging device.

5. The digital wallet device of claim 3, wherein said presentation unit is a screen.

6. The digital wallet device of claim 3, wherein said presentation unit is further presenting a user interface to be used by said user.

7. The digital wallet device of claim 3, wherein said communication device is a mobile device; said sensor is a camera of said mobile device; and said decoding and said broadcasting is done by a software application installed on said mobile device.

8. The digital wallet device of claim 1, wherein said data string comprising at least one of a destination account address for said transaction and an amount for said transaction.

9. The digital wallet device of claim 1, further comprising a sensor for capturing a destination machine-readable code encoding a destination account address for said transaction, wherein said destination machine-readable code is decoded by said at least one processor and said creation of said transaction is further based on said destination account address.

10. The digital wallet device of claim 1, further comprising:

a removable non-transitory computer readable storage medium storing said transaction code.

11. The digital wallet device of claim 1, wherein said non-transitory computer readable storage medium includes a removable write-only data storage card storing said private key.

12. The digital wallet device of claim 1, further comprising a hardware security module (HSM) storing said private key.

13. The digital wallet device of claim 1, further comprising:

an input IC that is isolated from said cryptocurrency management IC; and

a sensor mounted on said input IC.

14. The digital wallet device of claim 13, further comprising:

an input component connected to said cryptocurrency management IC and is isolated from any other computer interface; and

wherein the output component is electronically disconnected from said input component and adapted to receive the data piece from said input IC and presenting to a user a representation of said data piece.

15. The digital wallet device of claim 1, wherein said at least one processor is further executing code to create said private key and said public key.

16. The digital wallet device of claim 1, wherein said private key is further sent via said unidirectional communication hardware.

17. The digital wallet device of claim 1, wherein said at least one processor is further executing code to create a message request based on said data string and to sign said message request using said private key; and said message request is sent by said unidirectional communication hardware to said communication device for transmitting to a smart contract capable of managing cryptocurrency based on said public key.

18. The digital wallet device of claim 1, wherein said at least one processor is further executing code to create a cryptocurrency rule or definition and to sign said rule or definition using said private key.

19. The digital wallet device of claim 1, wherein said at least one processor is further executing code to create policy for secure multi-signature scheme and to sign said policy using said private key; and said policy is sent by said unidirectional communication hardware to said communication device for sending to co-signers of said multi-signature scheme.

20. The digital wallet device of claim 1, wherein said multi-signature scheme is based on one of standard blockchain multi-signature and encryption key splitting mechanism.

21. The digital wallet device of claim 1, further comprising a mechanical input component for reading mechanically encoded data, wherein said creation of said transaction is further based on said mechanically encoded data.

22. A method for transferring cryptocurrency by a digital wallet device, the method comprising:

receiving an input from a user only through a keyboard or touchscreen connected to a cryptocurrency management integrated circuit (IC) that is isolated from any computer interface and adapted for receiving the data string from the user;

receiving, through an output component that is electronically disconnected from said cryptocurrency management IC, a data piece indicative of a data string by the user and presenting to the user a representation of said data piece;

creating, by at least one processor mounted on said cryptocurrency management IC, a transaction of a cryptocurrency based on said data string and signing said transaction using a private key of said cryptocurrency, said private key is stored in a non-transitory computer readable storage medium mounted on said cryptocurrency management IC; and

sending, by a unidirectional communication hardware, said transaction, to a communication device for broadcasting said transaction via a network, via data travel only in one direction.