WHAT IS CLAIMED IS:

1. A digital wallet device for storing and managing cryptocurrency, the digital wallet device is electronically disconnected from other digital devices and comprising:

a cryptocurrency management integrated circuit (IC) that is isolated from any computer interface;

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;

a man-machine interface (MMI) for receiving an input from a user;

at least one processor mounted on said cryptocurrency management IC for executing transaction code to create a transaction of said cryptocurrency based on said input and to sign said transaction using said private key; and

a unidirectional communication hardware for sending said transaction 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 input 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

an output component electronically disconnected from said input component, said output component receiving a data piece from said input IC and presenting to a user a representation of said data piece, which is indicative of a desired input action by said user according to a physical structure of said input component.

15. The digital wallet device of claim 1, wherein said MMI is a keyboard.

16. The digital wallet device of claim 1, wherein said MMI is a touchscreen.

17. 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.

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

19. 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 input 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.

20. 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.

21. 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.

22. The digital wallet device of claim 21, wherein said multi-signature scheme is based on one of standard blockchain multi-signature and encryption key splitting mechanism.

23. 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.

24. A method for transferring cryptocurrency by a digital wallet device that is electronically disconnected from other digital devices, comprising:

receiving an input from a user via a man-machine interface (MMI) connected to a cryptocurrency management integrated circuit (IC) that is isolated from any computer interface;

creating, by at least one processor mounted on said cryptocurrency management IC, a transaction of a cryptocurrency based on said input 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.