

Specifications (Draft)

PassFree Electronic Lock & Key System using Wireless Authentication

Electronic Key Device

Memory

The private and public key pair is stored in read-only memory and is written during manufacturing. Or, maybe it can be automatically generated on first use and locks will accept the first key as the administrative key. Maybe this does not apply to all models.

Radio

The on-board radio transceiver must have a range of at least 30cm.

Power

Receives power by induction. Will probably be 5 V and 0.1 A

Form

Standalone Device

Dimensions: 2" by 2.5" surface and varying from 0.25" to 0.75" in width. Thin-width side has a closed hole about 0.2" diameter on the edge in order to pass rings and chains through it.

Software

The key may also be implemented as software running on another device (such as a smart phone) that has radio capability to communicate with a lock.

Electronic Lock Device

Memory

The device must have at least 64MB RAM and 2 GB permanent storage for operating system and cryptography software and customer data.

Radio

The on-board radio transceiver must have a range of at least 30cm.

Power

Sends power to electronic key device by induction.

Form

The lock device should be as small as possible so that it can fit a variety of applications. It should have holes (possibly in a panel that extends for this purpose) for mounting in various enclosures, and also sockets for USB, Ethernet, or other wired communication with the server, which we'll figure out later.

For more information about improved electronic access control using PassFree, contact:

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