

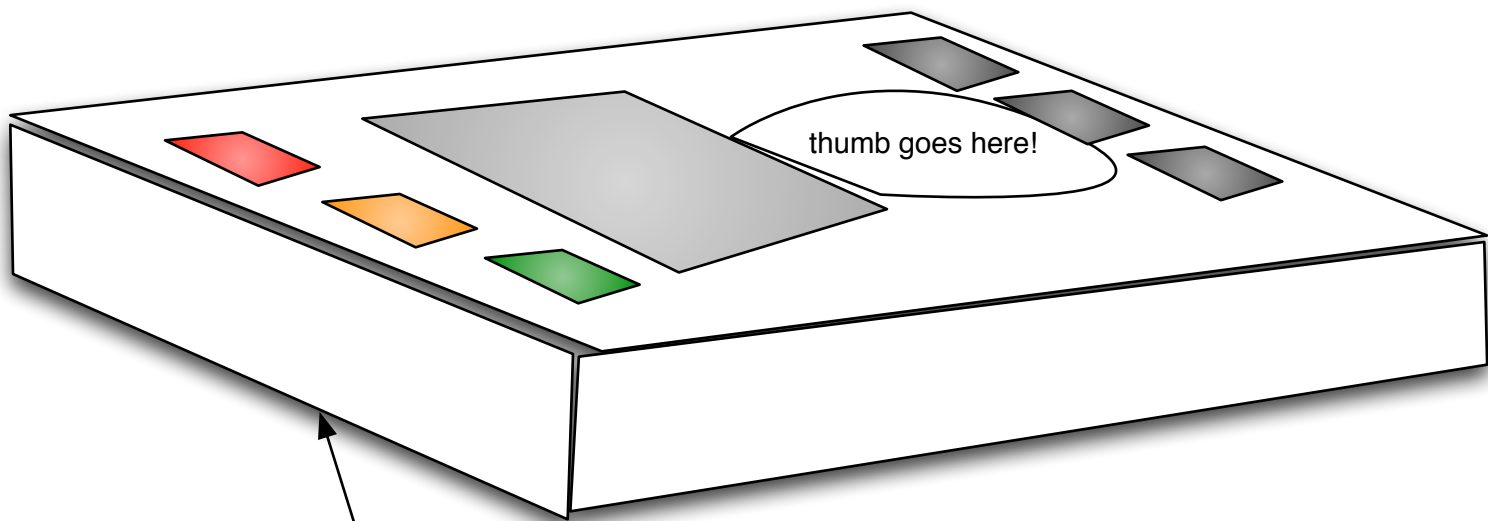
thumbprint reader and private key are both inside the device, so that no other device can intercept either of them during the transaction.
the only thing that comes out of the data connection is the encrypted message.
the other side of the terminal is allowed to provide a message for the device to encrypt.

the meaning of the three lights:

red - power on
(should turn on when you plug it in and off when you unplug)

orange - received data to encrypt, need thumbprint to authenticate

green - thumbprint authenticated, message has been encrypted and transmitted



device will be round and sleek
this is just a rough sketch