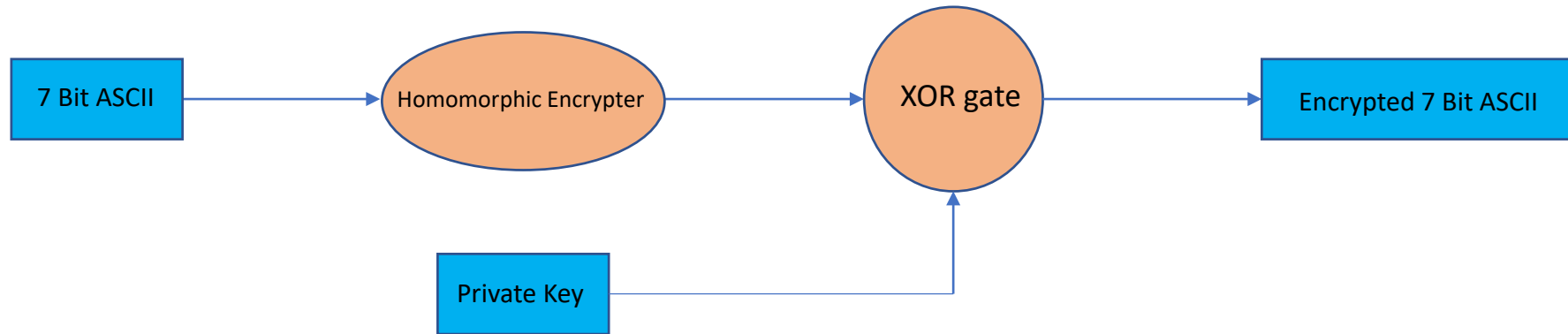# ENCRYPTER MODULE

- 7 bit ASCII message is obtained from the gateway.
- It is encrypted using a homomorphic encrypted. A homomorphic encrypter is a circuit which creates cipher text by manipulating bits with the help of logic gates.
- For our project we have inverted all the even bits and performed a logical left shift on the odd bits (shown in logisim).
- The intermediate message is then encrypted using a private key , a 7 bit number known only by the communicator and receiver.
- After step 4 , the output encrypted 7 bit ascii value is obtained.
- Decrypted circuit would just be the reverse logic of the homomorphic encrypter.