Decryption

known C = Cipher Text

Unknown

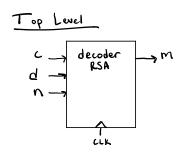
M = message Text (output)

e = public key d = private key

n = P+Q

La product of prime numbers.

CIK: Common system clock (assumed)



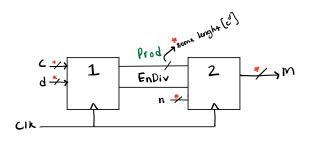
decryption equation

*-okay >> -maybe custom Steps to decrypt 1. - calculate Cd - Store into register Prod

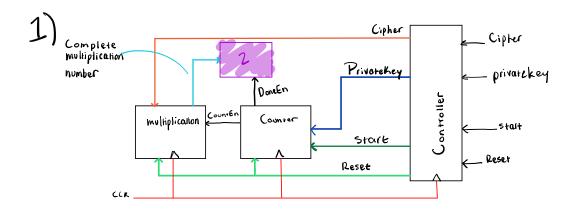
2. - remainder of

- output m (string to calculate)

EnDiv = Enable signal sent to 2 when prod has been calculated.



- are keys/product of prime constant length? - if not, what is max length?
 - * length of input/output not determined.



Counter - Counts to private key, sets counten high to signal the

<u>DoneEn</u> - pulse sent when Counter is done, signaling modulus step to start

Count En - high when Counter is counting to enable multiplication module