Byte Units

KB = 200

MB = 230 GB = 240 TB = 250

4GB = 4x230 pigtes

EB = 200 N = number of bits in memory address then 2 N is number memory cells

32 bit memory address = 32 memory cells

each memory adl is I byte

230 bytes memory = 20. 2 bytes = 4 GB

 $\chi^{y} \cdot \chi^{z} = \chi^{y+z}$ 

32 GB memory =  $3^5 \cdot 3^0$  bytes =  $3^5 = 35$  bits in memory address 34.954

3/GB momory = 3/ \* 2 = 2 \* 2 = 2 34.954 34.954 34.954 bits in momory address?

3TB memory 22 \* 340 = 242 bits memory address

2/-2 22=4

24=16 25=32

37 bit memory address = 237 memory cells = 2 \* 2 bytes = 128 GB

32 bit memory address

1d memory 46B 4,294, 967, 296 output wires decoder

29 momory 3GBX2GB

16 bits x 16 bits memory address

nows columns
65,536 bytes x 65,536 bytes

26 x 0 10

24 x 8 x 64 x 8

7 bit memory address

8.5 x 8.5

8 x 9

9 x 8 -> 9 bits row
9 x 9

9 bits column
9 bits column
0 output lines = 29 memory cells = 29 bytes

 $STB \text{ in 3d} \qquad 43 = \min \text{ mar 8ize} \qquad 43/2 \qquad 44/2$   $SX3^{40} = 3 \times 8^{40} = 3 \times 8$