Behavior: A CS R/W D Note

X O X Z hi imperance

A 1 0 MSAJ=D write

A 1 D=MSAJ Model

RAM is collection of bots stored in words

8x4 RAM

Address	Contents,
000	0110
001	1010
00	1101
ou	0010
100	1000
lol	0001
110	1101
iii	11111

MEDIOJ Contains 1101

to read data

(1) Assert A, CS=1, R/W=1

@ wad

3 Read D

To wide data

@ Assert A B

3 Assert CS=1 R/w=0

3 War

EENG 284 Ledoe 25 Size Prefox 210 1 KB 220 1MB 230 16B 240 1TB 1 PB 250 How many address buts for ZEB memony ? 2 * 16B = 231 bytes 31 - bots How man address bots for 512kB Memany? 512 + 1kB = 219 bytes 19-bits Pardon Access Memony (RAM)

- e ward get of bits that can simultaneously manystated.
- o RAM is a collection of words, buch stored at a unique address that can be retrieved (read) or overwritten (write).

NXM BHM

data in: legz(N) bit address A

data .

M-bit bidirectural data D

Control :

164 RIW, CS

statos: None

Behavior :

Ä	CS	RIW	6
X	0	X	7
A		D	Q=[A]M
A	- t		MEAJM

write read

Trande 32K ×8 RAM

32K = 216 wards each 8-bits

		212/	11 00	0
-		0100		U
		1(00	1010	1
		6011	1100	2
	/> 15	A	D	8
\		CS R/w		
		1100	(0(0	215-1

-11	210
IK	
16	230
11	240

Size

3nK = 3N. 310 = 3 104N