





Array Decoding

- Typically want an aspect ratio that is not too far from square
- How to divide up the row, column address decoding?

Use an 8K x 32 SRAM = 256 Kb = 2^{18}

$2^{18} = 2^9 \text{ rows} \times 2^9 \text{ columns}$

Row decoder is 9 to 512 decoder

Every 32 (2^5) columns is a 'word', and we only need to decode words. So, column decoder needs to decode 2^4 words, so need a 4 to 16 column decoder.

