

TEK 5110 L10 Mobile)

$\bar{I}_x = 25W$

$1mw = 0 dBm$

Wireless

+ 3dB - 2x
 ↑
 - 7/2x

$1W = 1E3mw \Rightarrow 30dBm$

$P_{dBm} = 10 \log P_{mw}$

10W 1E4

40dBm

20W

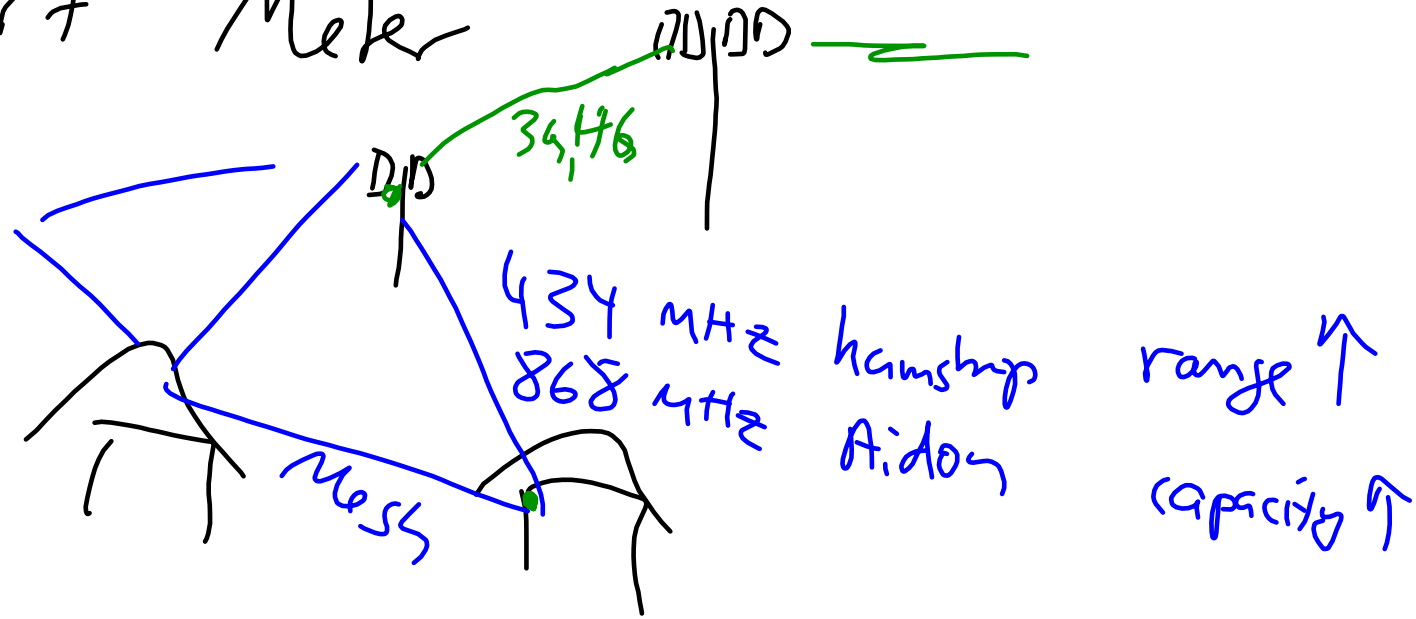
43dBm

25W

~45dBm

Android : Network Call Info Light

Smart Meter



56 Mult MIMO 256 antennas

$$f = \underline{800 \text{ MHz}} \quad \lambda = \frac{30 \text{ cm}}{f [\text{GHz}]} \approx 37 \text{ cm}$$

$$25 \times 25 \text{ antennas} \sim \frac{\lambda}{2}$$

$$\sim 12 \times 37 \text{ cm}$$

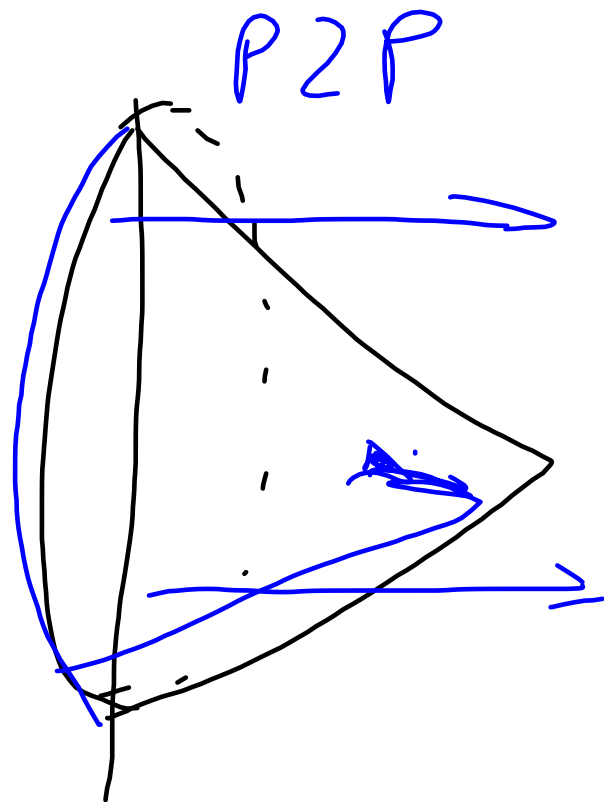
$$\sim \underline{4 \text{ m} \times 4 \text{ m}}$$

↑
↓

~~450 MHz~~ vs
regulations

700 MHz (800 MHz)

Marlin 56



radio link

