

# Calculating Space And Power Density Requirements For Apc

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 POWER DENSITY APPROACH To account for the impedance difference, the antenna's effective capture area term,  $A_e$  relates free space power density  $P_D$  with received power,  $P_r$ , i.e.  $P_r = P_D A_e$ .  $A_e$  is a function of frequency and antenna gain and is related to AF as shown in Section 4-12. SAMPLE CALCULATIONS  
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