

So what is a Quad Chart?

Wikipedia:

A **quad chart** is a form of [technical documentation](#) used to briefly describe an invention or other innovation through writing, illustration and/or photographs.^[1] Such documents are described as "quad" charts because they are divided into four quadrants laid out on a landscape perspective.^{[2][3][4]} They are typically one-page only; their succinctness facilitates rapid decision-making.^[5] Though shorter, quad charts often serve in a similar capacity to [white papers](#) and the two documents are often requested alongside one another.

Quad Chart Example

Goal

Design & build a narrowband satellite dish.



Assumptions

- Lossless transmission media
- No interfering signals
- Perfect transmitter/receiver (no power losses)

Constraints

- Budget limited to \$2k
- Power source limited to 1kW
- Must be completed in under 23 weeks
- Most parts must be ordered from mainland <math>\text{€}>1 week shipping time

Approach

1. Identify specifications: $R_x > -25\text{dBm}$ @ 500m
2. Friis equation, link margin calculations
3. Determine needed antenna parameters, select configuration.
4. Simulate
5. Build and test

<https://www.slideserve.com/magda/abstracts-submissions-posters-oh-my>