



Planning a Microwave Radio Link

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Background

Most installers know that clear line of sight is required between two antennas, but there is a lot more to it than that. In this article, the basics of designing and planning a microwave radio link will be discussed.

Some manufacturers of OFDM (Orthogonal Frequency Division Multiplexing)-based equipment claim to offer fixed wireless systems with non-line-of-sight functionality. However, this article does not discuss the RF propagation issues associated with non-line-of-sight gear.

Explanation of Terms

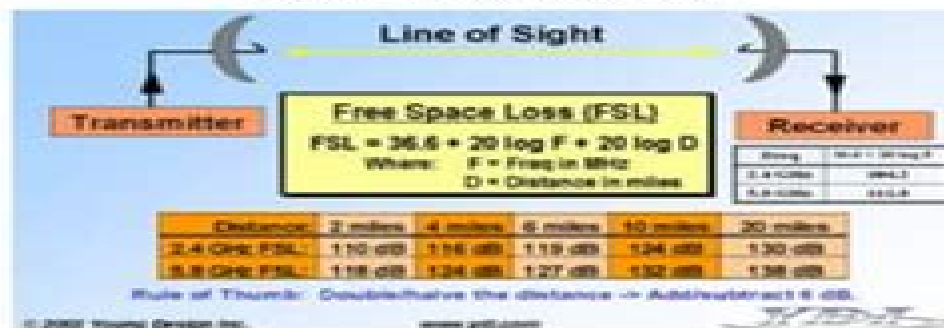
Before getting to the nuts and bolts of designing a link, some fundamental terms and concepts need to be reviewed.

Free Space Loss

As signals spread out from a radiating source, the energy is spread out over a larger surface area. As this occurs, the strength of that signal gets weaker. Free space loss (FSL), measured in dB, specifies how much the signal has weakened over a given distance.

Figure 1 shows the formula to calculate FSL and what the theoretical loss would be at sample distances. The type of antenna used has no effect on FSL, since at any appreciable distance all antennas look like a point-source radiator. Note that the difference in FSL between a 2.4 GHz link and a 5.8 GHz link is always about 8 dB, regardless of the distance. This is one of the reasons why 802.11a wireless local area network (WLAN) devices will have less than half the range of a 2.4 GHz WLAN device (e.g., 802.11b).

Figure 1 – Free Space Loss (FSL)



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Table of Contents Microwave Radio Link Manual

1. Understanding the eBook Microwave Radio Link Manual
 - The Rise of Digital Reading Microwave Radio Link Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Microwave Radio Link Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microwave Radio Link Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microwave Radio Link Manual
 - Personalized Recommendations
 - Microwave Radio Link Manual User Reviews and Ratings
 - Microwave Radio Link Manual and Bestseller Lists
5. Accessing Microwave Radio Link Manual Free and Paid eBooks

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- Microwave Radio Link Manual Budget-Friendly Options
- 6. Navigating Microwave Radio Link Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Microwave Radio Link Manual Compatibility with Devices
 - Microwave Radio Link Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microwave Radio Link Manual
 - Highlighting and Note-Taking Microwave Radio Link Manual
 - Interactive Elements Microwave Radio Link Manual
- 8. Staying Engaged with Microwave Radio Link Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microwave Radio Link Manual
- 9. Balancing eBooks and Physical Books Microwave Radio Link Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microwave Radio Link Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microwave Radio Link Manual
 - Setting Reading Goals Microwave Radio Link Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microwave Radio Link Manual
 - Fact-Checking eBook Content of Microwave Radio Link Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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