

2-2 Frequency Planning

The NCL135 can coexist with other similar radio links within the vicinity. It uses a variety of processing techniques to provide this compatibility. Diversity with other links can be achieved through the use of different transmit spreading codes, frequencies and antenna pattern separation. In order to provide the maximum immunity to interference, it is recommended that the following guidelines be observed.

2-2-1 Frequency Band

The NCL135 operates at 2400 – 2483.5 GHz.

2-3 Theory of Operation

2-3-1 NCL135

The NCL135 is installed indoors near the user's data equipment. The ambient environment must comply with the specifications contained in Subsection 2.6. Configuration information is supplied by the User Interface Non-volatile memory is provided to store the firmware and the previously entered configuration data. Thus, configuration data is retained during a loss of power. A set of default values are entered during the manufacturing process.

2-4 Antenna and Cabling

2-4-1 General

Use of antennae, cable and connectors other than those approved for use with the NCL135 are prohibited.

2-4-2 Antenna

WaveRider Communications Inc. recommends a professional installation of the antenna system for the NCL135.

(for further information refer to... of this document)

2-4-3 Cables

Coaxial cables used in this product impact upon many factors, such as path loss, antenna gain, and required received signal strength. When practical, use the lowest loss coaxial cable allowed for chosen antenna gain. Coaxial cable providing a minimum of 2 dB of insertion loss is recommended.

(for further information refer to... of this document)

Maximum Ethernet cable is 100 metres as specified in TIA/Eia 568A Standard