Application of Galileo 2.0 microprocessor in RF 315 data transmission and reception

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Abstract: This topic focuses on applying the Galileo 2.0 microprocessor to develop a data transmission and reception system over 315MHz radio frequency (RF 315). The context of the topic is defined by the necessity of efficient solutions for data transmission in non-contact environments. The objective is to build a stable and reliable RF 315 signal transmission system, while testing its feasibility through experiments on the Galileo 2.0 microprocessor platform. The research method includes analyzing RF 315 technology, designing transmitter/receiver circuits, and implementing source code for microprocessor monitoring. The significance of the topic lies in its potential to expand applications for IoT and automation systems, as well as contributing to the understanding of the performance and reliability of the Galileo 2.0 microprocessor in an RF environment.

Keywords: Galileo 2.0 Microcontroller, Data Transmission/Reception, RF 315MHz, Radio Signal, IoT