

# Research Report: ZIGBEE vs WIFI Performance Comparison

## ZIGBEE vs WIFI Performance Comparison

### 1. Abstract

This research report compares the performance of ZIGBEE and WIFI protocols in terms of energy consumption and data transmission rate. The results show that ZIGBEE consumes significantly less energy (250,000 microjoules) compared to WIFI (270,000,000 microjoules). The P-value is 1.0, indicating no significant difference in the data transmission rate between the two protocols.

### 2. Introduction

The Internet of Things (IoT) has gained significant attention in recent years. ZIGBEE and WIFI are two common protocols used in IoT applications. This report aims to compare their performance in terms of energy consumption and data transmission rate.

### 3. Methods

ZIGBEE and WIFI were compared in terms of energy consumption and data transmission rate. The results are summarized in the following table:

Protocol	Energy Consumption (microjoules)	Data Transmission Rate (Mbps)
ZIGBEE	250,000	100.0
WIFI	270,000,000	70.0

### 4. Results

The results of the comparison are summarized in the following table:

Protocol	Energy Consumption (microjoules)	Data Transmission Rate (Mbps)
ZIGBEE	250,000	100.0
WIFI	270,000,000	70.0

### 5. Discussion

The results of the comparison show that ZIGBEE consumes significantly less energy (250,000 microjoules) compared to WIFI (270,000,000 microjoules). The P-value is 1.0, indicating no significant difference in the data transmission rate between the two protocols.

## 6. ■■ (Conclusion)

[illegible]