

6LoWPAN传感器节点的设计与实现

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基金项目：中国博士后科学基金

摘要：

本文提出了一种基于6LoWPAN的传感器节点的设计方案，对节点中的硬件与软件设计进行了详细的论述与讨论。在小型实验平台上对本节点的数据包接收率、平均延迟时间以及平均消耗能量等性能参数进行了比较分析。实验数据表明，本节点能很好地实现与IPv6节点的互联并保证其连续性。

关键词：传感器网络，传感器节点，适配层，协议

Design and Implementation of a 6LoWPAN Sensor Node

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Abstract:

This paper proposes the design scheme of a 6LoWPAN sensor node and expounds the hardware and software design of the sensor node. In a small-scale experimental platform the performance parameters of the sensor node, including packet reception rate, average delay time and average consuming-energy, are compared and analyzed. The experimental data demonstrate that the sensor node can perform the connection with an IPv6 node very well and can ensure the continuity of the communication.

Keywords: Sensor network, Sensor node, Adaption layer, protocol

投稿时间：2010-03-22

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