



IEEE 802.15.4 Protocol Implementation on FPGA

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | IEEE 802.15.4 Protocol Implementation on FPGA | The IEEE 802.15.4 is a wireless standard introduced for low power, low cost wireless communication with moderate data rates. In the next few years, it is expected that Low Rate Wireless Personal Area Networks (LR-WPAN) will be used in a wide variety of embedded applications, including home automation, industrial sensing and control, environmental monitoring and sensing. Wireless Pan employs one of the two connection arrangements namely full mesh topology and partial mesh topology. One of the MAC schemes proposed is slotted Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA), and this paper analyzes whether this scheme meets the design constraints of those low-power and low-cost sensor networks. | Format: Paperback | Language/Sprache: english | 80 pp.

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