

IEEE Standard for Low-Rate Wireless Networks

Amendment 4: Higher Rate (2 Mb/s) Physical (PHY) Layer

IEEE Computer Society

Sponsored by the
LAN/MAN Standards Committee

IEEE
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IEEE Std 802.15.4t™-2017
(Amendment to
IEEE Std 802.15.4™-2015
as amended by IEEE Std 802.15.4n™-2016,
IEEE Std 802.15.4q™-2016, and IEEE Std 802.15.4u™-2016)

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Approved 14 February 2017

IEEE-SA Standards Board

Abstract: This amendment defines a physical layer for IEEE Std 802.15.4™-2015, capable of supporting 2 Mb/s data rates, utilizing the 2400–2483.5 MHz band, having backwards-compatibility to, and the same occupied bandwidth as, the present 2450 MHz O-QPSK physical layer, and capable of simple implementation. Target range should be at least 10 meters. This amendment defines modifications to the medium access control (MAC) sublayer needed to support this new physical layer.

Keywords: ad hoc network, IEEE 802.15.4™, low data rate, low power, LR-WPAN, mobility, PAN, personal area network, radio frequency, RF, short range, wireless, wireless personal area network, WPAN

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