

**IEEE P802.11  
Physical Layer Specification - Non-Directed Infrared**

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**TITLE:** **PROPOSAL FOR PHYSICAL LAYER  
SPECIFICATIONS OF A DIFFUSE INFRARED  
MEDIUM**

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**IR PHYSICAL LAYER SPECIFICATIONS**

Speed	1, 4, & 10 Mbits/sec
Wavelength	830 nm LED Emitters and Silicon PIN-Diode Detectors
Directionality	Diffuse, Non-Directed
Modulation	Baseband OOK
Encoding	Manchester
Emitted Optical Power	< 1 mW/cm <sup>2</sup> (10% of MPE for spatially incoherent light)
Channelization	None

