



# 802.11g+ MiniPCI Module

# NWH3050



## Product Overview

The NWH3050 802.11g+ MiniPCI Module provides outstanding performance capable of data rates up to 5 times faster than standard 802.11b network. The NWH3050 is the wireless solution for networking OEM manufacturers, such as IA, portable devices, residential gateway, and ADSL router, to build up the wireless LAN capability. By utilizing NDC's WLAN expertise, the NWH3050 is the best solution for time-to-market with guaranteed quality.

## Specifications

<b>Standard Compliance</b>	IEEE802.11g IEEE802.11b
<b>Host Interface</b>	Mini-PCI spec V1.0;VLYNQ;16-bit Slave Mode
<b>Form Factor</b>	Mini-PCI Type IIIB
<b>Antenna</b>	Two antenna connectors provided for external diversity antenna
<b>RF Emission Type</b>	Direct Sequence Spread Spectrum (DSSS)
<b>RF Frequency Band</b>	2.4GHz
<b>Media Access Control</b>	CSMA/CA with ACK
<b>Channels</b>	802.11b— USA/Canada: 11 Channels Major European countries: 13 Channels Japan: 14 Channels 802.11g— USA/Canada: 11 Channels Europe/Japan: 13 Channels
<b>RF Output Power</b>	802.11b— 17dBm (Typical) 802.11g— 14dBm (Typical)
<b>Transmission Rate</b>	54/48/36/24/18/12/11/9/6/5.5/2/1Mbps with auto fallback 22Mbps (compatible with TI's proprietary 802.11b+) 4x Mode (Optional)
<b>Receive Sensitivity</b>	54 Mbps OFDM, 10% PER, -68 dBm 48 Mbps OFDM, 10% PER, -70 dBm 36 Mbps OFDM, 10% PER, -75 dBm 24 Mbps OFDM, 10% PER, -79 dBm 22 Mbps PBCC, 10% PER, -80 dBm 18 Mbps OFDM, 10% PER, -82 dBm 12 Mbps OFDM, 10% PER, -84 dBm 11 Mbps CCK, 8% PER, -82 dBm 9 Mbps OFDM, 10% PER, -87 dBm 6 Mbps OFDM, 10% PER, -88 dBm 5.5 Mbps CCK, 8% PER, -85 dBm 2 Mbps QPSK, 8% PER, -86 dBm 1 Mbps BPSK, 8% PER, -89 dBm
<b>Software Supports</b>	Dynamic Rate Shifting Channel Setting; Roaming; RF Signal Quality Monitor; Site Survey Windows 98SE/Me/2000/XP;Linux driver (Support Red Hat 8.0,Kernel 2.4.18-14; Red Hat 9.0,Kernel 2.4.20-8 for miniPCI only;16-bit Slave Mode(March)
<b>Security</b>	802.1x Authentication WPA (Wi-Fi Protected Access) 64/128/256-bit WEP Encryption with TKIP, Shared Key Authentication
<b>Power Voltage</b>	3.3 Volt $\pm$ 5%
<b>Power Consumption</b>	Radio Transmission: 500 mA Radio Receiving: 280 mA Standby: 20mA
<b>Regulatory Compliance</b>	CE

\*The product specifications are subjects to change without prior notification.

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