



Intel in  
Communications

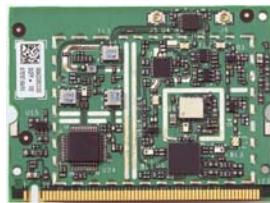
Intel PRO  
Network Connections

# Intel® PRO/Wireless 2100 LAN Mini-PCI Type 3B Adapter

## Product Description:

Embedded 2.4 GHz Wireless Local Area Network Mini-PCI adapter. The Mini-PCI Type 3B form factor is designed for notebook computer systems where overall thickness must be kept to an absolute minimum.

This overview is a representation of the final product, not the sample. See Beta Kit cover letter for current product functionality.



Type 3B Mini-PCI shown

## Key Features:

- 2.4 GHz support
- Up to 11 Mbps at 2.4 GHz
- IEEE 802.11b standard technology
- Advanced Security using LEAP, TKIP, 802.1x
- Adaptive Switching with VPN Control provides wired to wireless switching and WLAN roaming
- Bluetooth™ co-existence capability

## Technical Specifications

<b>Model Name</b>	Intel® PRO/Wireless 2100 LAN Mini-PCI Type 3B Adapter, (WM3B2100) Intel® PRO/Wireless 2100 LAN Mini-PCI Type 3A Adapter, (WM3A2100)
<b>Dimensions (H x W x D)</b>	Type 3B: 2.34 in x 1.75 in x 0.20 in (59.45 mm x 44.45 mm x 5 mm) Type 3A: 2.34 in x 2.0 in x 0.20 in (59.45 mm x 50.8 mm x 5 mm)
<b>Weight</b>	0.6 oz (17 g)
<b>Antenna Interface Connector</b>	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066
<b>Radio ON/OFF control</b>	Supported by both hardware and software
<b>Connector Interface</b>	124-pin SO-DIMM edge connector
<b>LEDs output</b>	Link, Activity
<b>Operating Temperature</b>	0 to +70° Celsius
<b>Humidity</b>	50 to 85% non-condensing
<b>Frequency Modulation</b>	2.4 GHz (802.11b)
<b>Frequency Band</b>	2.4 GHz to 2.497 GHz
<b>Modulation</b>	DBPSK, DQPSK, CCK
<b>Wireless Medium</b>	2.4GHz ISM: Direct Sequence Spread Spectrum (DSSS)
<b>Channels</b>	Full 14 Channel support
<b>Data Rates</b>	11, 5.5, 2, 1 Mbps
<b>Indoor Range</b>	100 ft (30 m) @ 11 Mbps / 300 ft (90 m) @ 1 Mbps
<b>Outdoor Range</b>	400 ft (120 m) @ 11 Mbps / 1500 ft (460 m) @ 1 Mbps
<b>Transmit Output Power</b>	16dBm (typical)
<b>Adapter Power Consumption</b>	
<b>Transmit</b>	1.6 W
<b>Receive</b>	1.0 W
<b>Idle</b>	135 mW
<b>Sleep</b>	45 mW
<b>Voltage</b>	3.3 V

## Technical Specifications continued

<b>Operating System</b>	Windows® XP, 2000, Me, 98SE, Windows® NT4.0*, and Linux*
<b>WECA</b>	WiFi certification for 802.11b
<b>WHQL</b>	YES
<b>WLAN Standard</b>	IEEE 802.11b
<b>Architecture</b>	Infrastructure or ad hoc (peer-to-peer)
<b>Security</b>	LEAP, SSN**, TKIP, 802.1x, EAP-TLS, 128-bit and 64-bit WEP, Tgi**, AES**, CKIP**
<b>Product Safety</b>	UL, C-UL, CB (IEC 60590)
<b>Compliance</b>	Single SKU for all major countries

\*\* Post FCS implementation

Products Available	Product Code
Intel® PRO/Wireless 2100 LAN Mini-PCI Type 3B Adapter (.11b only)	WM3B2100
Intel® PRO/Wireless 2100 LAN Mini-PCI Type 3A Adapter (.11b only)	WM3A2100
Intel® PRO/Wireless 7100 LAN Mini-PCI Type 3B Adapter (Dual Band)	WM3B7100
Intel® PRO/Wireless 7100 LAN Mini-PCI Type 3A Adapter (Dual Band)	WM3A7100

## Intel® PROSet Software

Provides driver consistency among desktops, notebooks and servers in one simple common user interface. PROSet delivers the best mobile experience including the following highlights.

- Intel Quick Access Manager.** Automatic discovery and configuration of WEP, IP, and VPN settings when roaming
- Intel Adapter Switching.** Automatic reconnect when changing media
- Intel Instant Ad hoc Connection.** Single pass phrase to establish an Ad hoc network; automatically changes required network settings



### Connection Status

- Signal Strength
- Network Name
- Security
- Radio On/Off

### Network Management

- Quick Access Manager
  - Network Name
  - Security Settings
  - Network Discovery
  - VPN Management
  - Unlimited, shareable location profiles
  - Infrastructure and Ad hoc mode configuration

### NIC Management

- Power Settings
- International Mode
- Antenna Diversity

\*Other names and brands may be claimed as the property of others

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