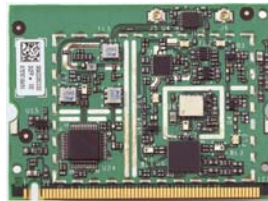# Intel® PRO/Wireless 2100 LAN Mini-PCI Type 3B Adapter

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

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

intel®

Intel in Communications

Intel® PRO
Network Connections

Technical Specifications continued

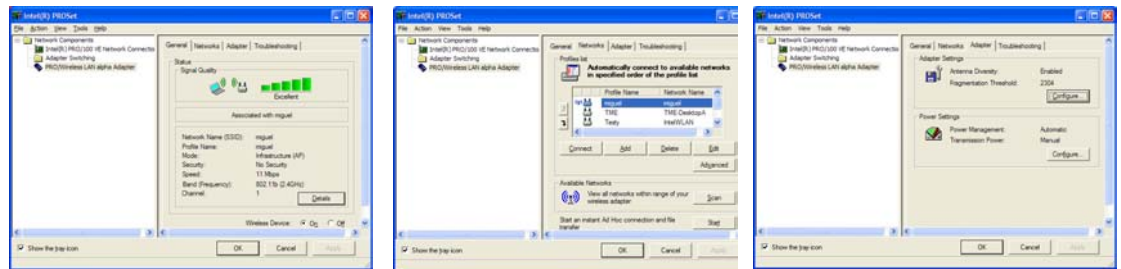| Operating System	Windows® XP, 2000, Me, 98SE, Windows® NT4.0*, and Linux*
WECA	WiFi certification for 802.11b
WHQL	YES
WLAN Standard	IEEE 802.11b
Architecture	Infrastructure or ad hoc (peer-to-peer)
Security	LEAP, SSN**, TKIP, 802.1x, EAP-TLS, 128-bit and 64-bit WEP, Tgi**, AES**, CKIP**
Product Safety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