

# The Intel PRO/Wireless 2915ABG Mini-PCI Adapter offers high performance and improved mobility

## Overview

Lenovo™ continues to enhance its Wireless LAN Mini-PCI adapter offerings with the Intel™ PRO/Wireless 2915ABG Mini-PCI Adapter. This upgrade lets you upgrade to the latest Intel Wireless LAN technology on select wireless-upgradable ThinkPad® models.

Whether you work from the office or on the road, this option enables connectivity to existing 802.11a, 802.11b, and 802.11g networks<sup>5</sup>. It improves mobility and provides the performance necessary for high-bandwidth applications such as:

- Multimedia delivery
- IP telephony
- Large file transfers

In addition to offering high performance, this Wi-Fi adapter card is compatible with Access Connections, which automatically manages all of your networking connections in one utility.

Wireless security is important, and the Intel PRO/Wireless 2915ABG Mini-PCI Express Adapter supports most encryption protocols so you can connect to corporate networks easily and securely.

Compatibility with the 802.11b and 802.11g protocols allows you to leverage the large install base of 802.11b technology. You also benefit from higher data rates up to 54 Mbps when connecting to an 802.11g or 802.11a-based access point.

## Key prerequisites

Refer to the **Hardware requirements** and **Software requirements** sections for a list of supported systems.

## Product number

For details, refer to the Product number section in this announcement.

## Availability date

September 13, 2005

- <sup>1</sup> Wireless 11a, 11b, and 11g: Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on any of these listed formats respectively; the actual connection connection will be based on the access point to which it connects.
- <sup>2</sup> Refer to **Additional information** for security enhancement details.
- <sup>3</sup> Actual device range and data transfer speed depend upon many factors and are often less than the maximum possible.
- <sup>4</sup> With 11g-based access point.
- <sup>5</sup> Public network access limited; subscription may be required. Access fees may apply.

## At a glance

The Intel PRO/Wireless 2915ABG<sup>1</sup> Mini-PCI Adapter provides secure wireless connectivity<sup>2</sup> with maximum flexibility and performance for wireless-upgradable ThinkPad notebooks. This Mini-PCI adapter is based on three Wireless LAN (WLAN) standards: IEEE 802.11a, 802.11g, and 802.11b. It offers data rates up to 54 Mbps<sup>3</sup> in both the 2.4 GHz<sup>4</sup> and 5 GHz bands. Features include:

- Data transfer rates of:
  - 6 Mbps to 54 Mbps for 802.11a
  - 1 Mbps to 54 Mbps for 802.11g
  - 1 Mbps to 11 Mbps for 802.11b
- 802.11a, 802.11g, and 802.11b seamless roaming and manual selection mode
- Mini-PCI Type IIIb

The following wireless encryption protocols are supported.

- WPA, WPA2, WPA-PSK, Cisco LEAP, EAP-TTLS, EAP-TLS, and PEAP-MS Chap-V2

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## AP Distribution

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Country/Region	Announced
ASEAN *	Yes
Australia	Yes
Hong Kong	Yes
PRC	Yes
Taiwan	Yes
Korea	Yes
Japan	Yes
New Zealand	Yes

\* Bangladesh, Brunei, Myanmar, Sri Lanka, India, Nepal, Indonesia, Malaysia, Philippines, Singapore, Thailand, Laos, Cambodia, Vietnam

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## Description

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The tri-mode capability of this adapter enables you to easily transmit on 802.11a, 802.11b, or 802.11g wireless LAN networks. The key attributes of the 802.11a protocol include:

- Transmission speeds of up to 54 Mbps
- Operates in the less-crowded 5 GHz frequency band

### *Flexibility*

The new Intel PRO/Wireless 2915ABG Mini-PCI adapter is an ideal choice if you are on the move, in the office, or in a campus environment. The adapter will automatically search for the best connection as you roam through different wireless LAN networks, helping to maintain connectivity throughout your wireless network. The adapter can be used at work, home, or public hot-spots without hardware configuration changes.

This adapter helps improve costs of ownership by supporting all three WLAN protocols. Costs are lowered by reducing the need to support multiple environments or reconfigure client devices as users move between them. In addition, existing WLAN investments are protected as the adapter supports low- and high-speed WLAN network devices.

### *Security*

Lenovo continues to enhance wireless security through authentication and encryption. The Intel PRO/Wireless 2915ABG Mini-PCI adapter supports the following security features and standards:

- Wired Equivalent Privacy (WEP)
- Advanced Encryption Standard
- 802.1X Authentication

In addition, Lenovo offers the Embedded Security Subsystem (ESS) on selected ThinkPad systems. The ESS can be used to augment 802.1x authentication and security, storing authentication credentials such as ID/Password, or digital certificates for Transport Layer Security (TLS) networks supported in Microsoft™ Windows™ XP.

**Additional information:** All offers are subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time without notice. Lenovo is not responsible for photographic or typographic errors.

Lenovo makes no representation or warranty regarding third-party products or services.

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## Product number

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Description	Part Number
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Intel PRO/Wireless 2915ABG Mini-PCI Adapter - Hong Kong, New Zealand, Australia	41N2990
Intel PRO/Wireless 2915ABG Mini-PCI Adapter - Philippines, Singapore, Vietnam	41N2991
Intel PRO/Wireless 2915ABG Mini-PCI Adapter - Japan	41N2992

Intel PRO/Wireless 2915ABG Mini-PCI 41N2994  
Adapter - China, Indonesia,  
Malaysia, Pakistan, South Korea,  
Taiwan

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Other company, product, and service names may be trademarks or service marks of others.

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# Asia Pacific Announcement Supplemental Information

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September 13, 2005

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## ***Intel PRO/Wireless 2915ABG Mini-PCI Adapter (41N2990)***

**Product positioning:** The Intel™ PRO/Wireless 2915ABG Mini-PCI Adapter offers enhanced flexibility and performance for multiple Wireless LAN (WLAN) technologies into a single adapter. This product joins the existing portfolio of 802.11b Wireless Mini-PCI adapters: Cisco Aironet Wireless and Intel PRO/Wireless 2100 3B.

Customers who purchase select ThinkPad® T40, R40, and X31 models — with integrated 802.11b wireless Mini-PCI adapters and UltraConnect antenna — can upgrade their systems to 802.11a or 802.11g functionality with the new 11a/b/g Wireless LAN Mini-PCI Adapter II (73P4301).

### ***Technical information***

**Form factor:** Mini-PCI Type IIIb

**Performance specifications:** This adapter supports a maximum physical layer throughput of 54 Mbps, with automatic fallback to 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, and 6 Mbps.

**Note:** Effective throughput will be less than these values and will also vary, depending on the usage environment.

#### ***Physical specifications***

- Approximate height: 3.3 mm (0.130 in)
- Approximate width: 59.6 mm (2.35 in)
- Approximate depth: 44.6 mm (1.76 in)
- Approximate weight: 11.6 g (0.026 lb)

#### ***Operating environment***

- Temperature: 0° to 70°C (32° to 158°F)
- Relative humidity: 8% to 95%, non-condensing

#### ***Agency approvals***

- FCC
- UL
- Industry Canada RSS
- Telec
- CE
- MIC

**ENERGY STAR-compliant:** No

**Hardware requirements:** The Intel PRO/Wireless 2915ABG Mini-PCI Adapter is supported on the following Lenovo™ systems:

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System name	Machine type	Model
T40/T41T42/T43	2373, 2374, 2378, 2379, 1871, 1872, 1875, 1876, 2668, 2669, 2686, 2687	Select wireless- upgradable
X31/X32/X40/X41/X41 Tablet	2672, 2673, 2884, 2885, 2371, 2372, 2382, 2386, 2525, 2526, 2527, 2528, 1866, 1867, 1868, 1869	Select wireless- upgradable
R50/R51	1829, 1830, 1831, 1836	Select wireless- upgradable
R50p	1832, 1833	Select wireless- upgradable
R51	2883, 2887, 2888, 2889	Select wireless- upgradable
R52	1846, 1847, 1848, 1849, 1858, 1859, 1860, 1861, 1958	Select wireless- upgradable

**Software requirements:** One of these operating systems:

- Microsoft™ Windows™ 2000
- Microsoft Windows XP
- Microsoft Windows 98 SE
- Microsoft Windows NT™ 4.0, ThinkPad platform

**Compatibility:** Some configurations may not be compatible.

Lenovo Access Connections simplifies the process of connecting to a network in a variety of locations through automation and seamless roaming.

### **Planning information**

**Cable orders required:** No

**Installation time:** Approximately 10 minutes

**Packaging:** One box

#### **Shipment group**

- Intel PRO/Wireless 2915ABG Mini-PCI Adapter
- CD

### **Security, auditability, and control**

This product uses the security and auditability features of the hardware in which it is installed.

### **Product Structure**

Plant of Mfg.

- AP — except Japan
  - IIPC
- Japan
  - IIPC, SSCI-FUJI

Plant of Control

- N/A

Plant of Distr Lenovo:

- AP — except Japan

- Lenovo(1046), Lenovo(1040)
- Japan
  - Lenovo(2131), Lenovo(1040), Lenovo(1046)

Plant of Distr IBM:

- AP — except Japan
  - IBM-SING(1026), IBM-SING(1014), IIPC(1030)
- Japan
  - IBM-Tokyo(2003), IIPC(1030), IBM-SING(1026)

**Partnumbers for DAC/Odyssey Purpose**

SAP Order No.	Product Type	Serial- ized	Pick Pack	Ship- pable	Component Part Nos.	Comment
** 9549EKA	B	Yes	No	No	No	SAP

\*\* This is an example - fill in field w/Brand specific DAC/Odyssey information \*\*

Unit of Measure	Minimum Order Quantity	Distribution Location
** 5	1	SDS

\*\* Example \*\*

**Terms and conditions**

Field-installable	Yes
Customer setup	Yes
Warranty period <sup>6</sup>	1-year
Service type	CRU
Maintenance agreement	No
Optional upgrade	No
Licensed programs	No

All other terms and conditions are the same as those applicable to the Lenovo machine type in which the feature is installed.

<sup>6</sup> To obtain copies of the Lenovo Statement of Limited Warranty, contact your reseller or call Lenovo.

**Help and service information — Features and options**

During the warranty period, support for a warranty related issue can be obtained by accessing Lenovo online services (requires Internet access account, not included) or calling the Support Center, 24 hours a day, 7 days a week, to answer any questions regarding your new Lenovo option. Response time will vary depending on the number and nature of calls received. If you need warranty service, return or exchange is available. In addition, if your Lenovo option is installed in an Lenovo computer, you may be entitled to service at your location. For general questions related to the use of your options, fee-based support is available. Your technical support representative can help you determine the best alternative.

**Accessing Lenovo online services**

<http://www.lenovo.com/think>

**Placing the call to Lenovo**

For Lenovo technical support:

- Contact your place of purchase or your local sales office.

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**Prices**

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For all local charges contact your marketing representative.

**FRU Parts**

Field Replaceable Units (FRU)

Description	FRU Part #	Feature Part #
Intel PRO/Wireless 2915ABG Mini-PCI Adapter - Hong Kong, New Zealand, Australia	27K9936	41N2990
Intel PRO/Wireless 2915ABG Mini-PCI Adapter - Philippines, Singapore, Vietnam	27K9938	41N2991
Intel PRO/Wireless 2915ABG Mini-PCI Adapter - Japan	27K9940	41N2992
Intel PRO/Wireless 2915ABG Mini-PCI Adapter - China, Indonesia, Malaysia, Pakistan, South Korea, Taiwan	27K9942	41N2994

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