4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520; 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,216,232; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,260,553; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,557,093; 5,578,810; 5.581.070; 5.589.679; 5.589.680; 5.608.202; 5.612.531; 5.619.028; 5.627.359; 5.637.852; 5.664.229; 5.668.803; 5.675.139; 5.693.929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,742,043; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,848,064; 5,850,078; 5.861.615; 5.874.720; 5.875.415; 5.900.617; 5.902.989; 5.907.146; 5.912.450; 5.914.478; 5.917.173; 5.920.059; 5.923.025; 5.929.420; 5,945,658; 5,945,659; 5,946,194; 5,959,285; 6,002,918; 6,021,947; 6,029,894: 6,031,830; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,082,621; 6,084,528; 6,088,482; 6,092,725; 6,101,483; 6,102,293; 6,104,620; 6,114,712; 6,115,678; 6.119.944; 6.123.265; 6.131.814; 6.138.180; 6.142.379; 6.172.478; 6.176.428; 6.178.426; 6.186.400; 6.188.681; 6.209.788; 6.209.789; 6 216 951 6 220 514 6 243 447 6 244 513 6 247 647 6 308 061 6 250 551 6 295 031 6 308 061 6 308 892 6 321 990 6 328 213 6,330,244; 6,336,587; 6,340,114; 6,340,115; 6,340,119; 6,348,773; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363.918; D370.478; D383.124; D391.250; D405.077; D406.581; D414.171; D414.172; D418.500; D419.548; D423.468; D424.035;

This product is covered by one or more of the following U.S. and foreign Patents: 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,760,248; 4,806,742; 4,816,660; 4,845,350; 4,896,026;

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products

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LA-5030 PC Card

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D430,158; D430,159; D431,562; D436,104. 5,912,662; 6,011873; 6,080,001; 6,234,389; 6,193,152B1 Invention No. 55,358; 62,539; 69,060; 69,187 (Taiwan); No. 1,601,796; 1,907,875; 1,955,269 (Japan); European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713

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Aorway/Norge

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**Difibe** Asia/Pacific

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Germany/Deutchland

# **Regulatory Compliance**

Untside Spain

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+34 81 354 40 00

447 2232 4375

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02067-72030

086 / 046 6

0-4678-808-1

9727-629-206

0096-9629-99+

All Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required. Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.

If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. Before you use the unit, it must be configured to operate in your facility's network and run your applications.

# Regulatory Approvals

Regulatory labels are applied to the device signifying the radio (s) are approved for use in the following countries: United States, Canada, Australia, Japan, Singapore & Europe

Note<sup>1</sup>: For 2.4GHz Products: Europe includes, Austria, Belgium, Croatia, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Liechtenstein, Luxembourg, Netherlands, Norway, Portugal, Spain,

Sweden, Switzerland, United Kingdom

Note<sup>2</sup>: The use of 5GHz RLAN's has varying restrictions of use; please refer to the Symbol Declaration of Conformity (DoC) for details, at http://www2.symbol.com/doc/

# FCC RF Exposure Guidelines

#### Safety Information

FC Tested to comply with FCC Standards

FOR HOME OR OFFICE USE

The device complies with Internationally recognized standards covering Specific Absorption Rate (SAR) related to exposure to electromagnetic fields from radio devices.

### Reducing RF Influence – Use Properly

It is advisable to use the device only in the normal operating position and it is recommended that no part of the human body be allowed to come too close to the antenna during operation of the equipment.

# **Radio Frequency Interference Requirements - FCC**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the TFCC rules. These limits are designed to provide reasonable

protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna

# 10116m10101 106100

Increase the separation between the equipment and receiver

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Consult the dealer or an experienced radio/TV technician for help.

Radio Transmitters (Part 15)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Radio Frequency Interference Requirements – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

#### Radio Transmitters

This device complies with RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met

#### CE Marking and European Economic Area (EEA)

The use of 2.4GHz RLAN's, for use through the EEA, have the following restrictions:

Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 -2.4835 GHz

 France outside usage, the equipment is restricted to 2.400-2.45 GHz frequency range Belgium outside usage, the equipment is restricted to 2.460-2.4835 GHz frequency range Italy requires a user license for outside usage.

The use of 5GHz RLAN's has varying restrictions for use within the EEA; please refer to the Symbol Declaration of Conformity (DoC) for details at http://www2.symbol.com/doc/

#### Statement of Compliance

Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity may be obtained from http://www2.svmbol.com/doc/

#### Other Countries

Mexico - Restrict Frequency Range to: 2.450 - 2.4835 GHz. Sri Lanka - Restrict Frequency Range to: 2.400 - 2.430 GHz



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Μίτεless Νείωοτκετ



Customer support is available 24 hours a day, 7 days a week.

+44 118 642 2360 Contact local distributor or call

84422300

11-8062311

312-271700

12-22-96-07-10

906-272-908-1

0800 328 2424

-631-738-2400

-800-653-5350

14441

8171-0207

If there is a problem with the equipment, they will contact the Symbol Support Center:

SU 9bistu0 0185-255-489-1+

2U 9bisnl 8710-745-008-1

11001074-1103 4002 YeM - A noisiveA 10-88678-27

Distributor Operations

Europe/Mid-East Sales Support

Latin America

Sweden/Sverige

Netherlands/Nederland

Denmark/Danmark

United Kingdom

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South Africa

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#### Introduction

The Wireless Networker LA-5030 PC Card allows PC Card slot-equipped devices to connect to a Wi-Fi IEEE 802.11 a, b or g wireless local area network (LAN) or communicate directly with other mobile devices enabled for wireless LAN connectivity.

Features include:

- · Operating mode options for access point or peer-to-peer associations
- Low-power operation for battery-powered devices with PC Card slots
- Standard NDIS (Network Driver Interface Specification) drivers
- Windows 2000 and XP operating system support
- WEP, 802.1x, EAP security
- Wi-Fi Protected Access (WPA)
  Roque AP Detection

#### Installation Prerequisites

The physical PC Card installation differs for each system. Refer to the system manufacture documentation for device specific information.

Note: For instructions on installing the LA-5030 PC Card in Windows 2000 or XP for use with the Microsoft Zero Config utility, refer to the Wireless Networker LA-5030 PC Card & LA-5033 PCI Adapter Users Guide available from the Symbol Website at (<u>http://www.symbol.com/services/downloads/wn\_abg\_drivers.html</u>).

Keep the PC Card serial number in a safe place. The Support Center uses the information to reference warranty and service contract data. Verify the model number (LA-5030) before use. Contact the support center if an item is missing or damaged.

The LA-5030 PC Card installation requires:

- a computer with a Type II PC Card slot
- Windows Service Pack #4 for Windows 2000 installations
- Windows Service Pack #1 for Windows XP installations
- an available interrupt (IRQ) and available I/O part address
- Internet access.

# Installing LA-5030 PC Card Driver and Configuration Utility in Windows 2000

If there is a version of the LA-5030 Symbol Wireless Networker 802.11 a/g Configuration Utility and driver in the computer, remove them from the system. Select *Start -> Programs -> Symbol Wireless Networker -> Uninstall* to remove the Configuration Utility and driver. The user can also use the Windows Add/Remove Programs feature to remove the Configuration Utility and driver.

To install the LA-5030 PC Card and Configuration Utility in Windows 2000:

- Ensure the previously installed driver and Symbol Wireless Networker 802.11 a/g Configuration Utility has been removed (if necessary).
- Download the driver and Symbol Wireless Networker 802.11 a/g Configuration Utility from the Symbol Web site (http://www.symbol.com/services/downloads/wn\_abg\_drivers.html).

A **File Download** window displays prompting the user to either open the driver and software installer or save the installation package to the system.

- 3. Select Open to proceed with the installation. A WinRAR self-extracting archive window displays.
- Note: To manually install the driver and software package select **Save**, define a destination location for the driver and software package and follow the prompts displayed by the installer.
- Select Install from the WinRAR self-extracting archive window to automatically extract the driver and software
  package and launch the Symbol Wireless Networker Install Menu.
- 5. Select the **Install Software** option.
- Select the Install device driver and configuration utility check box and click OK. A Symbol Wireless Networker 802.11 a/g Installer window displays.
- Click Next to continue with the driver and Symbol Wireless Networker 802.11 a/g Configuration Utility installation. A License Agreement window displays.
- 8. Select I accept the terms of the license agreement. Click Next. A Select Hardware window displays.
- 9. Select the Symbol LA-5030 Cardbus Adapter. Click Next.
- A Choose Destination Location window displays prompting the user to confirm the destination for the software.
- 10. Specify the location of the software files.

The InstallShield Wizard begins installing the Configuration Utility and driver.

11. Click Finish to complete the Configuration Utility and driver installation.

12. Align the PC Card properly before putting it in the slot. Insert the PC Card firmly without forcing until it seats snugly. The **Found New Hardware** window displays.

The system detects the new hardware and installs the drivers automatically

Once the driver has been installed successfully, the link LED on the PC card illuminates. The Unplug or Eject Hardware icon and the Configuration Utility icon display in the task tray. Double-click on the Configuration Utility icon to display the utility. Select the **Find WLANs** tab and choose the network best suited to the signal strength and interoperability requirements of the adapter. The user is ready to use the PC Card with the Configuration Utility.

13. Proceed to the Configuring the LA-5030 PC Card section of this document or refer to the Wireless Networker LA-5030 PC Card & LA 5033 PCI Adapter Users Guide available from the Symbol Website at (<u>http://www.symbol.com/services/downloads/wn\_abg\_drivers.html</u>) for advanced configuration instructions.

#### Installing LA-5030 PC Card Driver and Configuration Utility in Windows XP

If there is a version of the LA-5030 Symbol Wireless Networker 802.11 a/g Configuration Utility and driver in the computer, remove them from the system. Select *Start -> Programs -> Symbol Wireless Networker -> Uninstal* to remove the configuration utility and driver. The user can also use the Windows Add/Remove Programs feature to remove the Configuration Utility and driver.

- To install the LA-5030 driver and Configuration Utility in Windows XP:
- Ensure the previously installed driver and Symbol Wireless Networker 802.11 a/g Configuration Utility has been removed (if necessary).
- Download the driver and Symbol Wireless Networker 802.11 a/g Configuration Utility from the Symbol Web site (http://www.symbol.com/services/downloads/wn\_abg\_drivers.html).

A File Download window displays prompting the user to either open the driver and software installer or save the installation package to the system.

- 3. Select Open to proceed with the installation. A WinRAR self-extracting archive window displays.
- Note: To manually install the driver and software package select **Save**, define a destination location for the driver and software package and follow the prompts displayed by the installer.
- 4. Select Install from the WinRAR self-extracting archive window to automatically extract the driver and software package and launch the Symbol Wireless Networker Install Menu.
- 5. Select the Install Software option.
- Select the Install device driver and configuration utility check box and click OK. A Symbol Wireless Networker 802.11 a/g Installer window displays.
- Click Next to continue with the driver and Symbol Wireless Networker 802.11 a/g Configuration Utility installation. A License Agreement window displays.
- 8. Select I accept the terms of the license agreement. Click Next. A Select Hardware window displays.
- 9. Select Symbol LA-5030 Cardbus Adapter. Click Next.
- A **Choose Destination Location** window displays prompting the user to confirm the destination for the software. 10. Specify a location for the software files.
- The InstallShield Wizard begins installing the Configuration Utility and driver.
- 11. Click **Finish** to complete the Configuration Utility and driver installation.
- 12. Align the PC Card properly before putting it in the slot. Insert the PC Card firmly without forcing until it seats snugly. The system detects the new hardware.
- 13. Click the **Install the software automatically (Recommended)** check box click **Next**. The system starts to install the drivers.

The Found New Hardware Wizard displays a message stating the wizard has completed the adapter software installation.

- 14. Click **Finish** to close the wizard and complete the installation. Once the driver has been installed successfully, the link LED on the PC card illuminates. The Unplug or Eject Hardware icon and the Configuration Utility icon display in the task tray. Double-click on the Configuration Utility icon to display the utility. Select the **Find WLANs** tab and choose the network best suited to the signal strength and interoperability requirements of the adapter. The user is ready to use the PC Card with the Configuration Utility.
- 15. Proceed to the Configuring the LA-5030 PC Card section of this document or refer to the Wireless Networker LA-5030 PC Card & LA-5033 PCI Adapter Users Guide available from the Symbol Website at (<u>http://www.symbol.com/services/downloads/wn\_abg\_drivers.html</u>) for advanced configuration instructions.

# Configuring the LA-5030 PC Card

The Symbol Wireless Networker 802.11 a/g Configuration Utility comes bundled with the PC Card driver. The software installation package is available from the Symbol Web site at

- (http://www.symbol.com/services/downloads/wn\_abg\_drivers.html).
- Use the Symbol Wireless Networker 802.11 a/g Configuration Utility to view and configure the PC Card settings.

Complete the driver and Configuration Utility installation instructions for Windows 2000 or XP to install Symbol Wireless Networker 802.11 a/g Configuration Utility and driver.

The status icon changes in real-time to reflect the signal strength and availability of the adapter and the wireless network. Right-click the icon in the task tray and select **Show Utility** to open the utility.

Select Exit to close the Configuration Utility and remove the icon from the task tray. Select Start-> Programs -> Symbol -> WIRELESS NETWORKER 802.11ag Utility to launch the Configuration Utility.

Note: Refer to the *Wireless Networker LA-5030 PC Card & LA-5033 PCI Adapter Users Guide* available from the Symbol Website at (<u>http://www.symbol.com/services/downloads/wn\_abg\_drivers.html</u>) for advanced configuration instructions using the Symbol Configuration Utility.

#### Troubleshooting

If problems are encountered during the installation of the LA-5030 PC Card, driver or Configuration Utility, refer to the *Wireless Networker LA-5030 PC Card & LA-5033 PCI Adapter Users Guide* available from the Symbol Website at (http://www.symbol.com/services/downloads/wn\_abg\_drivers.html).

#### **Specifications**

The LA-5030 PC Card has the following specifications: Dimensions 115-mm(L) x 54mm(W) x 7.5mm(H) Weight (with antenna) 41a 0° to 50° C Operating temperature Storage temperature -20° to 70° C Humidity 95% 95% maximum non- condensing Altitude 2.4k m(8000 feet)/4 hours (Operating) Vibration 10-70Hz/0.06", 70-2000Hz/15g, 20 minutes per cycle, 12 cycles per axis 50G, 11 msec ½ sine, 3 shocks per side Shock FSD meets CE-Mark PCMCIA Compliance Type II