



# MetroFlex 7211 Broadband Gateway Quick Setup Guide

This *Quick Setup Guide* provides step-by-step instructions on how to set up your Ruckus Wireless MetroFlex 7211 Broadband Gateway. After completing the steps described in this Guide, you will be able to place the device at your site and provide wireless network access to users.

## BEFORE YOU BEGIN

Before deploying Ruckus Wireless products, please check for the latest software and the release documentation.

- Release Notes are available at <http://support.ruckuswireless.com/documents>.
- User Guides are available at <http://support.ruckuswireless.com/documents>.
- Software Upgrades are available at <http://support.ruckuswireless.com/software>.
- Open Source information is available at [http://support.ruckuswireless.com/open\\_source](http://support.ruckuswireless.com/open_source).

## PACKAGE CONTENTS

- One Ruckus Wireless MetroFlex 7211 Broadband Gateway unit
- One AC power adapter
- One mounting kit (with printed instructions)
- This *Quick Setup Guide*

## SETUP REQUIREMENTS

- A computer running Windows 7, Vista, XP, or Windows 2000
- One or more of the following:
  - A modem (DSL or cable), E1/T1 router, or other device provided by your Internet Service Provider, that brings Internet access to your site.
  - A network switch or a DSL/Internet gateway device.

## DEFAULT SETTINGS

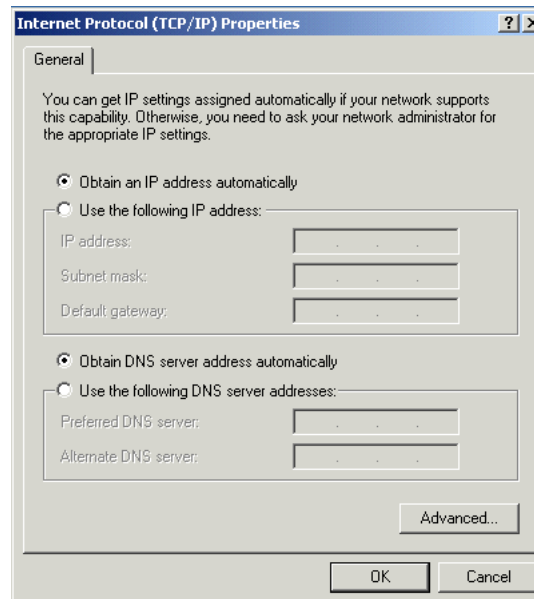
- The default IP address is 192.168.0.1.
- The subnet mask is 255.255.255.0.

To gain administrative control of the device, you must set your computer's network interface card to obtain an IP address automatically.

Proceed to the next section for instructions on configuring your IP address.

## STEP 1: CONFIGURE YOUR COMPUTER'S IP ADDRESS

- 1 Start the Network Connections properties dialog box:
  - On Windows 2000, click **Start > Settings > Network**, and then click **Dialup Connections**.
  - On Windows XP, click **Start > Settings > Control Panel > Network Connections**.
- 2 Double-click the icon for the Local Area Connection designated for your home network. *This is not the same icon as your home wireless network.*
- 3 In the Local Area Connection Properties window, select **Internet Protocol (TCP/IP)**, and then click **Properties**.
- 4 Select **Obtain an IP address automatically**, and then click **OK** to exit the TCP/IP Properties window.



- 5 Click **OK** to exit the Local Area Connection Properties window.

## STEP 2: CONNECT AND CONFIGURE THE DEVICE

Follow these steps to set up the device and gain administrative access to the management interface:

- 1 Remove the device from the packaging and place it next to your computer.
- 2 Connect the AC power adapter to the device, and then plug the other end into a power outlet or to a surge protector that is plugged into a power outlet.
- 3 Connect one end of the CAT5 Ethernet cable to the Ethernet port on your computer, and then connect the other end to the Ethernet port on the device.
- 4 On your computer, open a browser window, and then enter 192.168.0.1 in the address or location bar.
- 5 When the login screen appears, enter the username and password listed on the bottom of the unit. Then click the **Log On** button. The Quick Wizard page appears.  
*If you want to use the wizard, follow the instructions to complete configuration. Otherwise, go to the next step for manual configuration.*
- 6 On the **Configuration > Wireless** menu, change the default wireless network name (SSID) of this device to match the SSID of the AP you intend to connect to.
- 7 If security settings are enabled on the AP to which the device is connecting, make sure that you duplicate the exact settings on the device.
- 8 Click **Update** to save the changes.

If you want to change other settings on this page, refer to the information provided under the Need Help button.

The initial configuration is now complete. Click **Reboot** to make the change take effect.

## FOR MORE INFORMATION

You can now use the wireless network to log into the device's management interface. Use the management interface to review and fine-tune a wide range of device settings. For more information on how to configure the device from the management interface, refer to the online help.

If you are encounter issues connecting to the management interface or if wireless clients are unable to associated with the device, perform the basic troubleshooting steps below.

## TROUBLESHOOTING

If wireless clients are unable to connect to the device, perform these basic troubleshooting steps.

### Check the Wireless and Security Settings

Do the following to verify that the wireless network name (SSID) and security settings on the device match those of your wireless network:

- 1 Use an Ethernet cable to connect your computer to the device.
- 2 Set your computer's network interface card to obtain an IP address automatically.
- 3 Open a Web browser window, and then, in your browser's address or location bar, enter 192.168.0.1.
- 4 On the login page, enter the user name and password listed at the bottom of the unit.
- 5 Click **Login**.
- 6 On the menu, click **Configuration > Wireless**.
- 7 Click the **Metro WLAN** tab.
- 8 Verify that the MetroFlex 7211 Broadband Gateway's wireless and security settings match those of your remote AP.

### Check the LEDs

- Make sure you are using the power adapter supplied by Ruckus Wireless.
- Make sure the Power LED is on. If it is off, make sure that the power cord is properly connected to the device and that the power supply adapter is properly connected to a functioning power outlet. If the error persists, you have a hardware problem and should contact technical support.
- If you have a computer connected to the device, verify that the Network LED is on. Make sure the Ethernet cable connections are secure on the device and your computer. The Network LED on the device indicates link when the cable connection is solidly connected to the port on the gateway and to the port on your computer.
- Make sure that the Wireless LED is either steady or flashing green. If it is off, the wireless settings may be incorrect. Log in to the management interface as described earlier, and then verify that the wireless and security settings match those of your wireless network.
- If necessary, reset the device to its factory default settings.
- If you forgot the security settings that you configured on the device, you can reset it to factory defaults by inserting the end of a paper clip (or anything similar) into the Reset button hole located on the back of the unit.

## Federal Communications Commission Notices

This product 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.

### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This equipment shall not be collocated with any other transmitter.

### Harmful Interference Notice

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC 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 according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found 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
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

Changes or modifications to this equipment that have not been approved by Ruckus Wireless may void the user's authority to operate this equipment.

### External Antenna

This device has been designed to operate with an omni-directional antenna, and having a maximum gain of 9 dBi. Other antenna types or having a gain greater than 9 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

### Industry Canada Statement

This device complies with Industry Canada ICES-003 and RSS210 rules. Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes NMB003 et RSS210 d'Industrie Canada. Le fonctionnement est soumis aux conditions suivantes :

1. Ce périphérique ne doit pas causer d'interférences;
2. Ce périphérique doit accepter toutes les interférences reçues, y compris celles qui risquent d'entraîner un fonctionnement indésirable.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### Australia Statement

This device complies with the ACMA requirements for a Wi-Fi device namely Radio Communications (Low Impact Potential Devices) Class Licence 2000 Amd. 1:2007 and Radiocommunications (Compliance Labelling – Electromagnetic Radiation) Notice 2003. The equipment complies with the ACMA requirements for radiation exposure for a "general user/non-aware user". This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This equipment complies with the Australian safety requirements and should only used with the specified power adapter carrying a C-tick N136 and Electrical Approval Number V06649.

### European Union Notices

This product only supplied by Limited Power sources (sub-clause 2.5 of standard EN 60950-1

### Compliance Information for 2.4-GHz Wireless Products

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 300 328
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950



### National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

*Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:*

*Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesi menzionati di seguito:*

*Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Ausnahme der folgenden aufgeführten Staaten:*

#### France

In case the product is used outdoors, the output power is restricted in some parts of the band. See the table below or check <http://www.arcep.fr/> for more details.

*Dans la cas d'une utilisation en extérieur, la puissance de sortie est limitée pour certaines parties de la bande. Reportezvous à la table 1 ou visitez <http://www.arcep.fr/> pour de plus amples détails.*

Location	Frequency Range (MHz)	Power (EIRP)
Indoor (No restrictions)	2400-2483.5	100 mW (20 dBm)
Outdoor	2400-2454 [2454-2483.5]	100 mW (20 dBm) [10 mW(10 dBm)]

### Taiwan Statement

The control, adjustment and on/off operation of this device does not violate the "Administrative regulations on low power radio waves radiated devices". Any adjustments to the device should be carried out or be monitored by a specialist who has expertise on radio frequency devices. Replacement of components which may lead to the violation to the regulations is not allowed. Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices. The low power radio-frequency device shall not influence aircraft security and interfere with legal communications; if found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Act. The low power radio-frequency devices must not be susceptible with the interference from legal communications or ISM radio wave radiated devices.

### Thailand Statement

The output power is restricted to 100 mW (20 dBm) EIRP.

Česky [Czech]	Ruckus Wireless tímto prohlašuje, že tento Radio LAN je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede Ruckus Wireless erklærer herved, at følgende udstyr Radio LAN overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]	Hiermit erkläre Ruckus Wireless, dass sich das Gerät Radio LAN in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab Ruckus Wireless seadme Radio LAN vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, Ruckus Wireless declares that this Radio LAN is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente Ruckus Wireless declara que el Radio LAN cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ruckus Wireless ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
Français [French]	Par la présente Ruckus Wireless déclare que l'appareil Radio LAN est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano [Italian]	Con la presente Ruckus Wireless dichiara che questo Radio LAN è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo Ruckus Wireless deklarē, ka Radio LAN atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo Ruckus Wireless deklaruoja, kad šis Radio LAN atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart Ruckus Wireless dat het toestel Radio LAN in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, Ruckus Wireless, jiddikjara li dan Radio LAN jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Direttiva 1999/5/EC.
Magyar [Hungarian]	Alulírott, Ruckus Wireless nyilatkozom, hogy a Radio LAN megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym Ruckus Wireless oświadcza, że Radio LAN jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português [Portuguese]	Ruckus Wireless declara que este Radio LAN está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	Ruckus Wireless izjavlja, da je ta Radio LAN v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	Ruckus Wireless týmto vyhlasuje, že Radio LAN spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]	Ruckus Wireless vakuuttaa täten että Radio LAN tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar Ruckus Wireless att denna Radio LAN står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Íslenska [Icelandic]	Hér með lýsir Ruckus Wireless yfir því að Radio LAN er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.
Norsk [Norwegian]	Ruckus Wireless erklærer herved at utstyret Radio LAN er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.