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In rare instances, unauthorized individuals make connections to the telecommunications network through the use of remote access features. In such an event, applicable tariffs require the customer to pay all network charges for traffic. Alcatel-Lucent cannot be responsible for such charges and will not make any allowance or give any credit for charges that result from unauthorized access.

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# Package Contents



CellPipe 7130 RG 1Ez.N0001 Wireless Video Bridge



Ethernet Cable



Power Adapter



CD-ROM with User Manual

**Note:** Using a power supply with a different voltage than the one included with the 1Ez.N0001 Video Bridge will cause damage and void the warranty for this product.

# System Requirements

- Computers with Windows®, Macintosh®, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer Version 6.0 or higher, Firefox 3.0 or higher, Safari 3.0 or higher, or Chrome 2.0 or higher

# Introduction

## **TOTAL.PERFORMANCE**

Combines award winning access point features and 802.11n wireless technology to provide the best wireless performance.

## **TOTAL.SECURITY**

The most complete set of security features including WPA2 and MAC Address Control to protect your network against outside intruders.

## **TOTAL.COVERAGE**

Provides greater wireless signal rates even at farther distances for best-in-class Whole Home Coverage.

## **ULTIMATE.PERFORMANCE**

CellPipe 7130 RG 1Ez.N0001 is a 802.11n compliant device that delivers real world performance of up to 13x faster than an 802.11g wireless connection (also faster than a 100Mbps wired Ethernet connection). Create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the CellPipe 7130 RG 1Ez.N0001 Video Bridge to a router and share your high-speed Internet access with everyone on the network. In addition, this Wireless Bridge includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online gaming smooth and responsive, providing a better Internet experience.

## **TOTAL.NETWORK.SECURITY**

The CellPipe 7130 RG 1Ez.N0001 Wireless Bridge supports all of the latest wireless security features to prevent unauthorized access, be it from over the wireless network or from the Internet. Support for WPA and WEP standards ensure that you'll be able to use the best possible encryption method, regardless of your client devices.

# Features

- **Faster Wireless Networking.-**

The CellPipe 7130 RG 1Ez.N0001 provides up to 300 Mbps\* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio. The performance of this 802.11n wireless access point gives you the freedom of wireless networking at speeds 13x faster than 802.11g.

- **Advanced Firewall Features.-** The Web-based user interface displays advanced network management features including Content Filtering, which allows easily applied content filtering based on MAC Address.

- **WPS.PBC.-** (Wi-Fi Protected Setup Push Button Configuration) Push Button Configuration is a button that can be pressed to add the device to an existing network or to create a new network. A virtual button can be used on the utility while a physical button is placed on the side of the device.

This easy setup method allows you to form a secured wireless link between the CellPipe 7130 RG 1Ez.N0001 and another WPS enabled device. A PC is no longer needed to log into the Web-based interface.

- **WPS.PIN.-** (Wi-Fi Protected Setup Personal Identification Number) A PIN is a unique number that can be used to add the access point to an existing network or to create a new network. The default PIN may be printed on the bottom of the access point. For extra security, a new PIN can be generated. You can restore the default PIN at any time. Only the Administrator ("admin" account) can change or reset the PIN.

# Hardware Overview

## Connections



## LEDs



# Installation

This section will walk you through the installation process. Placement of the CellPipe 7130 RG 1Ez.N0001 is very important. Do not place the CellPipe 7130 RG 1Ez.N0001 in an enclosed area such as a closet, cabinet, or in the attic or garage.

## Wall mounting

### Pre-Requirements

- Anchors
- Screws
- Drill & Drill bit

1. Locate a high position on the wall that is free of obstructions and insert two screws in the wall 5 cm (2 in.) apart. Do not insert the screws all the way into the wall.

Important! Make sure that the screws are securely fixed to the wall and strong enough to hold the weight of the CellPipe 7130 RG (recommended screw type and size: Nylon wall plug [T8x25mm] and screws [T3.5x16mm]).

2. Align the holes on the back of the CellPipe 7130 RG with the screws on the wall and then hang the CellPipe 7130 RG on the screws.

## Stand-up mounting

Snap the cradle into the holes located on the side of the CellPipe 7130 RG and then place it on a desk so that LEDs are visible.



# Wireless Installation Considerations

The CellPipe 7130 RG 1Ez.N0001 wireless access point lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

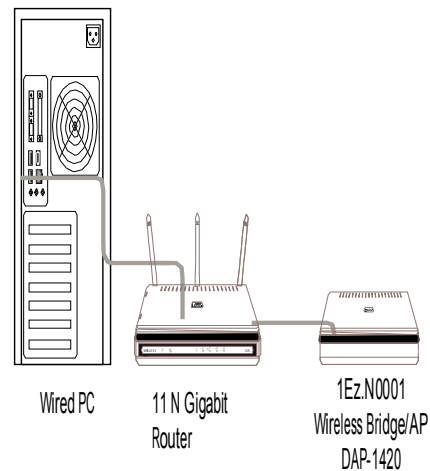
1. Keep the number of walls and ceilings between the The CellPipe 7130 RG 1Ez.N0001 access point and other network devices to a minimum. Each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless access points, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.

# AP/Bridge Mode

Depending on how you want to use your CellPipe 7130 RG 1Ez.N0001 will determine which mode you use. This section will help you figure out

## AP Mode

If you already have a wired or wireless router, and want to add an access point to connect your wireless clients to your network, you will need to move the switch on the back panel of the CellPipe 7130 RG 1Ez.N0001 to "AP" (for 5GHz).

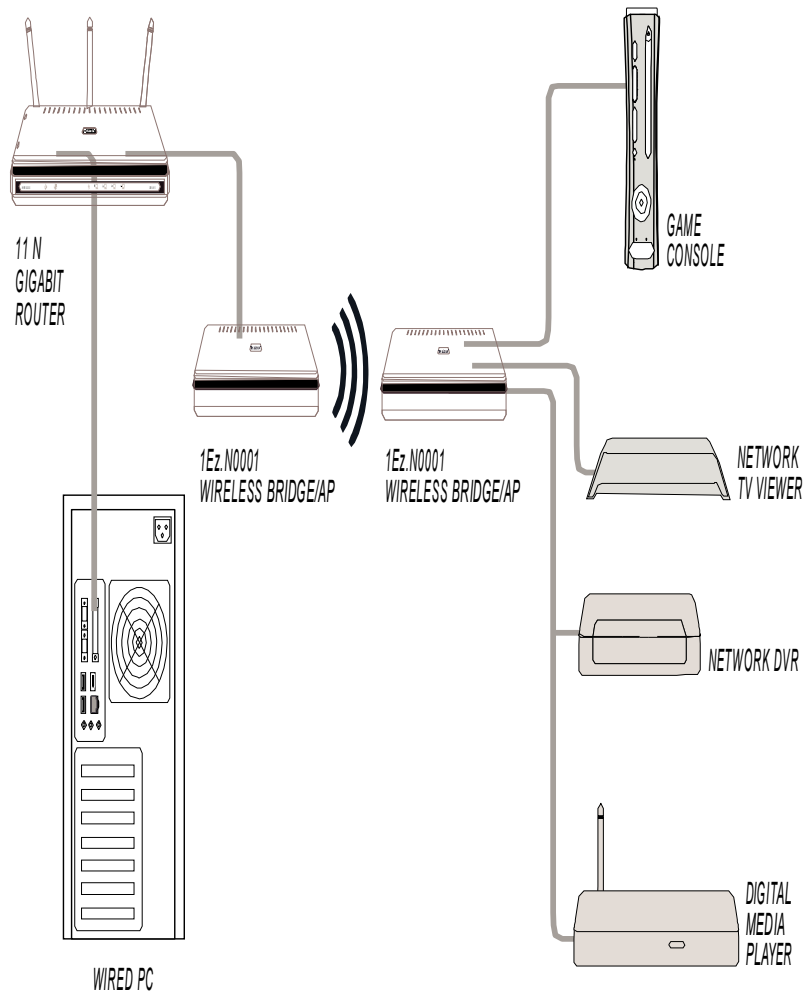


## Bridge Mode

If you want to wirelessly connect multiple Ethernet enabled devices such as game consoles, media players, or network attached storage devices you will need to move the switch on the back panel of the CellPipe 7130 RG 1Ez.N0001 to "Client" (Bridge).

## Create a Full MediaBand (5GHz wireless) Network

If you have two CellPipe 7130 RG 1Ez.N0001 devices and want to create a wireless network with full MediaBand technology you will need to connect one Wireless Bridge to your router and move the switch on the back panel to “AP.” The second Wireless Bridge will need to be placed next to your Ethernet-enabled devices and you will need to move the switch on the back panel to “Client.”



# One Touch AP Configuration

This feature makes the Wireless Access Point to have the ability to exchange/learn the Wireless Profile from another Wireless Router/Access Point.

1. Press the **WPS.button** on your Router or Access Point. WPS LED will flash on and off.
2. Press **WPS.Push.Button** on the 1Ez.N0001 and hold it for 5 seconds.
3. When One click AP setup is complete, your 1Ez.N0001 will have the same Wireless settings as your existing Router or AP.

# Configuration

This section will show you how to configure your CellPipe 7130 RG 1Ez.N0001 access point using the web-based configuration

## Web-based Configuration Utility

To access the configuration utility, open a web browser such as Internet Explorer and enter **http://192.168.2.254** in the address field.



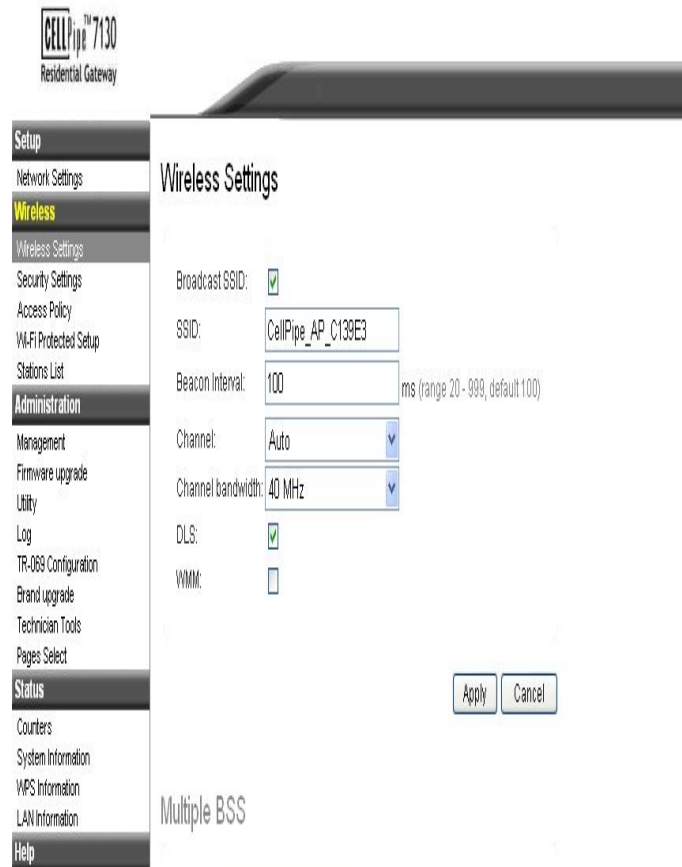
IP:	192.168.2.1
Username:	<input type="text" value="admin"/>
Password:	<input type="password" value="•••••"/>
	<input type="button" value="Login"/> <input type="button" value="Clear"/>

Enter **admin** for the user name and the password.

If you get a Page Cannot be Displayed error, please refer to the Troubleshooting section for assistance.

# Operating Mode

Click **Operation.Mode** to view your device's operation mode.



# Network Settings

## Ethernet Port

**Mode:** Select the Ethernet port mode to suit your Ethernet connection.

**Obtain an IP address automatically:** Check the box to obtain an IP address automatically.

**Use the following IP address:** Check the box to use a manually-set IP address.  
**Address:** IP address that was set manually.  
**Subnet Mask:** Subnet mask that was set manually.

**Default Gateway:** Default gateway.  
**DNS Server:** DNS server.

**VLAN Transparent:** Select to enable transparent VLAN.

**CELLPIPE™ 7130**  
Residential Gateway

**Setup**

- Network Settings
- Wireless**
- Wireless Settings
- Security Settings
- Access Policy
- Wi-Fi Protected Setup
- Stations List
- Administration**
- Management
- Firmware upgrade
- Utility
- Log
- TR-069 Configuration
- Brand upgrade
- Technician Tools
- Pages Select
- Status**
- Counters
- System Information
- WPS Information
- LAN Information
- Help

### Network Settings

Obtain an IP address automatically

Use the following IP address:

IP Address:

Subnet Mask:

Default Gateway:

DNS Server:

Device name:

Host name:

VLAN Transparent

# Wireless Settings

**SSID:** When you are browsing for available wireless networks, this is the name that will appear in the list.

**Security Mode:** Choose the security mode you want to use from the following five options.

**Disable** - Select if you don't want to enable any security (not recommended).

**Open.WEP**

**Shared.WEP**

**WPA-.Personal**

**WPA2-.Personal**





# WPS Settings

Choose one of the two WPS security options.

**Start WPS PBC:** Click to start WPS push-button configuration.

**Start WPS PIN:** Enter the WPS PIN of the device.



# Site Survey

Scan: Click to scan for Access Points in range.

The screenshot shows the web interface of a CellPipe 7130 Residential Gateway. The left sidebar contains a navigation menu with the following items: Setup, Network Settings, **Wireless**, Wireless Settings, Security Settings, Access Policy, Wi-Fi Protected Setup, Stations List, Administration, Management, Firmware upgrade, Utility, Log, TR-069 Configuration, Brand upgrade, Technician Tools, Pages Select, Status, Counters, System Information, WPS Information, LAN Information, and Help. The main content area is titled "Stations List" and displays a table for "Wireless Interface 1 - CellPipe\_AP\_C139E3 - AC:91:12:C1:39:E3". The table has five columns: MAC Address, Rate (MCS), Bandwidth, IP Address, and Device name.

MAC Address	Rate (MCS)	Bandwidth	IP Address	Device name
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# Remote Management

**Enable UPnP:** Check the box to enable UPnP.

**Base Port:** Enter the number of the base port.

**Enable NTP:** Check the box to enable NTP.

**Primary NTP Server:** Enter the host address of the primary NTP server.

**Server:**

**Secondary NTP Server:** Enter the host address of the secondary NTP server.

**Server:** server.

**Time Zone:** Select the time zone to use.

TR-069

## Configuration

**Enable TR-069:** Check the box to enable TR-069.

**ACS URL:** Enter the URL of the ACS.

Enter the Auto Configuration Server

**ACS Username:** (ACS) username.

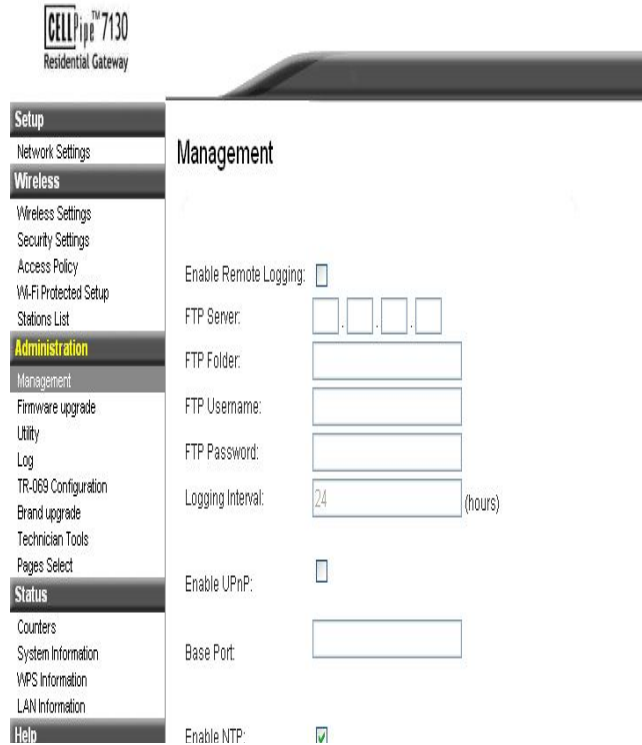
**ACS Password:** Enter the ACS password.

## Periodic Inform

**Enable:** Check the box to enable Periodic Inform.

## Periodic Inform

**Interval:** Enter the Periodic Inform Interval.



# Administration Software Upgrade

**Upload File:** Upload a file to upgrade the AP.

## Administration

**Change Password** Click to change the administrative password.

**Download Log Files** Click to download log files.

**Restore Defaults** Click to restore software default settings.

**System Reset** Click to reset the system.



## Ethernet Auto Provision

1. Plug a RJ45 cable between the AP Client and AP device.
2. Power on the AP and wait one minute. The AP's power LED will turn solid green.
3. Power on the AP Client.
4. While provisioning/pairing, the client's power LED will flash amber.
5. After auto-provision is completed, the client's power LED will flash solid green and the client's wireless LED will turn solid green for an HD connection and solid amber for an SD connection.
6. Unplug the RJ45 cable from the AP.
7. The AP Client is now connected to the AP.

## Setting up WPS

1. Power on the AP.
2. Power on the AP Client.
3. Pair the devices by pressing the WPS button on both devices:
  - a. Press the AP's WPS button for 5 seconds, then the AP's power LED will flash amber.
  - b. Press the client's WPS button for 5 seconds, then the client's power LED will flash amber.
4. Wait for the pairing process to complete by watching the LEDs on the devices:
  - a. While provisioning/pairing, the AP/Client power LED will flash amber
  - b. If pairing is successful, the AP/client's power LED will be solid green and the client's wireless LED will be solid green (HD)/solid amber (SD).

**FCC 15B statement:**

**Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits 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 in accordance with 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 can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

**IMPORTANT NOTE:**

**FCC 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 & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### Industry Canada statement:

This device complies with RSS-210 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### Caution :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

### Avertissement:

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

### IMPORTANT NOTE:

### Radiation Exposure Statement:

This equipment complies with Canada 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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**NOTE IMPORTANTE:** (Pour l'utilisation de dispositifs mobiles)

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Le module émetteur peut ne pas être co'implanté avec un autre émetteur ou antenne.