



# CellPipe<sup>®</sup> 7130

### **Residential Gateway**

6Ve.A2130, 6Ve.B2130 | Release 01 USER MANUAL

> 3FE-63398-AAAA-TCZZA EDITION 01 APRIL 2009

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#### Conformance statements

The equipment has been tested in the regulation lab and complied with the limits for SHDSL device, pursuant to Europe CE/CB, Australia A-Trick and China CCC. These limits of different regulations are designed provide reasonable protection against harmful interference or damage in a residential installation.

#### Security statement

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# About this document

#### Purpose

This document provides information on the hardware setup, software configuration, and administration necessary to operate the CellPipe 7130 Residential Gateway 6Ve.A2130 and 6Ve.B2130.

#### **Reason for revision**

The following table shows the revision history of this document.

Revision	Date	Reason for reissue	
Edition 01	April 2009	First release of this document	

#### Intended audience

This document is intended for users and administrators of the CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130.

#### How to use this document

This document introduces the CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130 hardware, connections, and setup. It also covers the Web configuration interface and provides parameter definitions for the fields on those screens.

#### **Conventions used**

This guide uses the following typographical conventions:

Appearance	Description
Italicized text	<ul> <li>File and directory names.</li> <li>Emphasized information.</li> <li>Titles of publications.</li> <li>A value that the user supplies.</li> </ul>
graphical user interface text or key name	<ul><li>Text that is displayed in a graphical user interface or in a hardware label.</li><li>The name of a key on the keyboard.</li></ul>

Appearance	Description
input text	Command names and text that the user types or selects as input to a system.
output text	Text that a system displays or prints.
ч	Press the <b>Return</b> or <b>Enter</b> key on the keyboard.

### Structure of hazard statements

#### Overview

For the safety of you and your equipment, this document contains hazard statements. Hazard statements are given at points where there may be a risk of damage to personnel, equipment, or operation. Failure to follow the directions in a hazard statement may result in personal harm, equipment damage, or network loss.

#### **General structure**

Hazard statements include the structural elements shown in the figure below.

### Structure of hazard statements



Lifting this equipment by yourself can result in injury due to the size and weight of the equipment.

Always use three people or a lifting device to transport and position this equipment. [ABC123]

ltem	Structure element	Purpose
1	Personal injury symbol	Indicates the potential for personal injury (optional).
2	Hazard type symbol	Indicates hazard type (optional).
3	Signal word	Indicates the severity of the hazard.
4	Hazard type	Describes the source of the risk of damage or injury.
5	Damage statement	Consequences if protective measures fail.
6	Avoidance message	Protective measures to take to avoid the hazard.
7	Identifier	The reference ID of the hazard statement (optional).

#### Signal words

The following table defines signal words that identify the hazard severity levels.

Signal word	Meaning
DANGER	Indicates an imminently hazardous situation (high risk) which, if not avoided, will result in death or serious injury.
WARNING	Indicates a potentially hazardous situation (medium risk) which, if not avoided, could result in death or serious injury.
CAUTION	When used with the personal injury symbol: Indicates a potentially hazardous situation (low risk) which, if not avoided, may result in personal injury.
	when used without the personal injury symbol: Indicates a potentially hazardous situation (low risk) which, if not avoided, may result in property damage, such as service interruption or damage to equipment or other materials.

Signal words for hazard severity

#### **Related information**

The documentation set accompanying this family of routers includes this User Manual, a CLI Command Reference Guide and a Quick Installation Guide.

#### **Technical support**

For technical support, contact your local Alcatel-Lucent customer support team. See the Alcatel-Lucent Support website for contact information: https://service.esd.alcatel-lucent.com/portal/page/portal/EService/customer\_support

About this document

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# 1 Product overview

### Overview

### Purpose

This chapter provides an introduction to the physical aspects of the CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130, including safety precautions, prerequisites, and descriptions.

The CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130 will be referred to as CellPipe 7130 RG throughout the rest of this document.

#### Contents

This chapter covers the following topics:

Hardware introduction	
Safety precautions	1-2
Prerequisites	1-2
Description of LEDs and interfaces	

### Hardware introduction

This CellPipe 7130 RG supports Ethernet-over-VDSL2 using one Ethernet data link that is rated up to 100 Mb/s symmetrically. With its bridge functionality, it connects any device equipped with a 10BASE-T or 100BASE-TX network interface card with a standard telephone cable to a VDSL switch. For this purpose, it provides:

- one VDSL port
- one Ethernet LAN port (10/100BASE-TX)

The CellPipe 7130 RG also includes router and firewall functionality.



### Safety precautions

Follow these recommendations to protect yourself and the CellPipe 7130 RG from harm:

- Use volume labels to mark the type of power.
- Use the power adapter provided with the CellPipe 7130 RG.
- Pay attention to the power load of the electrical outlet or extension cord. An overburdened power outlet or damaged cords and plugs may cause electric shock or fire. Check the power cords regularly. If you find any damage, replace the cord immediately.
- Leave adequate space for heat dissipation to avoid any damage caused by overheating the CellPipe 7130 RG. Do not cover the ventilation holes.
- Do not put the CellPipe 7130 RG near a heat source. Avoid placing the CellPipe 7130 RG in direct sunlight.
- Do not put the CellPipe 7130 RG in damp or wet locations. Do not spill any liquid on the CellPipe 7130 RG.
- Do not connect the CellPipe 7130 RG to any PC or electronic product unless our customer engineers or your ISP instructs you to do so; incorrect connections may cause fires.
- Do not place the CellPipe 7130 RG on an unstable surface or support.
- Do not place heavy objects on top of the CellPipe 7130 RG.
- Do not use liquid or aerosol cleaners; use a soft, dry cloth for cleaning.

### Prerequisites

Ensure that you have the following items before attempting to use the CellPipe 7130 RG:

- Internet services subscription (connection type, account information, and addresses)
- 10/100Base-T Ethernet NIC installed in your PC
- Operating system: Windows 98SE, Windows 2000, Windows NT, Windows ME, Windows XP, Microsoft Vista, or Mac OS
- Internet Explorer v4.0 or higher, Netscape v4.0 or higher, or Mozilla Firefox v1.5 or higher

**Note:** For optimal display quality, use Internet Explorer v5.0 or Netscape v6.1.

### Description of LEDs and interfaces

### Figure 1-1 Front panel



### Table 1-1 Front panel LEDs

LED	Status	Description	
WPS (push- button)	N/A	If the WPS LED is off, press the push-button to turn on the WPS. If the WPS LED is on, press the push-button once to turn off the WPS.	
WLAN (push- button)	N/A	If the WLAN LED is off, press the push-button to turn on the WLAN. If the WLAN LED is on, press the push- button once to turn off the WLAN.	
Power	On	CellPipe 7130 RG is powered on.	
	Off	Power is disconnected or there is a power failure.	
Lan 1 to 4	On	Ethernet LAN port 1 to 4 is connected and active.	
	Flashing	Ethernet LAN port 1 to 4 has data traffic.	
	Off	Ethernet LAN port 1 to 4 is not active.	
WPS	On	WPS is enabled.	
	Off	WPS is disabled.	
WLAN	On	Wireless function is enabled.	
	Off	Wireless function is disabled.	
Phone 1 to 2	On	Phone 1 to 2 is connected.	
	Off	No phones are connected.	
VDSL Link	On	VDSL is operating.	
	Slow flashing*	VDSL is training.	
	Off	VDSL is disconnected.	
VDSL Data	Slow flashing	VDSL is enabled.	
	Fast flashing <sup>†</sup>	VDSL is transmitting data.	
	Off	VDSL is disabled.	

LED	Status	Description
VDSL Diag	On	Diagnostics is running.
	Flashing	The CellPipe 7130 RG failed diagnostic when booting or resetting.
	Off	The CellPipe 7130 RG is functional and diagnostics is not running.
Internet	On	The CellPipe 7130 RG is connected to the Internet.
	Off	The CellPipe 7130 RG is not connected to the Internet.
Message	Slow flashing	Firmware upgrade in progress.
	Off	No firmware upgrade in progress.

#### Notes:

\* Slow flashing: LED flashes at the rate of 2 seconds on and 2 seconds off.

† Fast flashing: LED flashes at a rate of 0.2 seconds on and 0.2 seconds off.

### Figure 1-2 Rear panel



Table 1-2	Rear	panel	items
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ltem	Description
Power socket	DC power adapter port.
Power switch	Power On/Off switch.
Reset button	Press and hold for 5 s to restore the factory default settings.
Ethernet ports 1 to 4	Four RJ-45 ports to connect up to four Ethernet PCs or a Hub.
VDSL port	Input port for the VDSL network connection to the ISP.
Phone ports 1 to 2	Two RJ-11 ports for connecting telephones for VoIP.

# 2 Hardware installation

### Overview

### Purpose

This chapter provides the instructions to install the CellPipe 7130 RG hardware.

### Contents

This chapter covers the following topic:

To install the CellPipe 7130 RG

2-1

### To install the CellPipe 7130 RG

### Supplies

- CellPipe 7130 RG
- RJ-11 telephone cable
- two RJ-45 category 5 Ethernet cable
- power adapter

### Before you begin

### CAUTION

### Potential for equipment damage and personal harm

Before installing the CellPipe 7130 RG, ensure you have thoroughly read the Safety precautions and Prerequisites in chapter 1. Turn off all devices (computer, hub, CellPipe 7130 RG) before beginning this procedure.

#### Figure 2-1 Cable connections



#### Procedure

- 1. Connect the power adapter jack into the power socket on the CellPipe 7130 RG and plug the power adapter plug into an outlet.
- 2. Connect one end of the RJ-45 cable into the VDSL port on the CellPipe 7130 RG and the other end to your telephone/DSL service connection.
- 3. If you have VoIP, connect your phone(s) to the phone port(s) on the CellPipe 7130 RG.
- 4. Connect one end of the RJ-45 Ethernet cable to the Ethernet LAN port (1 to 4) on the CellPipe 7130 RG and the other end to your Ethernet PC (or LAN hub if you are setting up an intranet).
- 5. Turn the power switch on.

END OF STEPS

You must also configure the Internet properties on your Ethernet PC; see the TCP/IP Appendix or *Quick Installation Guide* for detailed instructions.

After setting up and configuring the CellPipe 7130 RG and your PC(s), you can access the web configuration tool.

## 3

# Accessing the CellPipe 7130 RG web configuration tool

### Overview

### Purpose

This chapter explains how to access the CellPipe 7130 RG web configuration tool by entering the IP address and the default passwords.

The management interface software is HTML-based and can be accessed using a web browser.

### Contents

This chapter covers the following topic:

To access the CellPipe 7130 RG web configuration tool

3-1

### To access the CellPipe 7130 RG web configuration tool

### When to use

Use this procedure to access the web configuration interface of the CellPipe 7130 RG. The configuration interface enables you to secure the CellPipe 7130 RG, limit access, set traffic routes, modify passwords, and change advanced settings.

### Before you begin

Before you can configure the CellPipe 7130 RG, it must be installed, connected to a webenabled PC, and turned on.

### Management IP settings

To establish the initial connection, either use a computer configured to be a DHCP client, or use a computer with IP settings in the 192.168.1.0 subnet. The default IP address of the CellPipe 7130 RG for the first LAN port is 192.168.1.1 with a subnet 255.255.255.0.

**Note:** If you are not sure how to configure your computer to be a DHCP client or to set your IP address and subnet mask, see the TCP/IP Appendix or the *Quick Installation Guide*.

#### Procedure

1. Open a web browser and enter the IP address of the CellPipe 7130 RG in the address bar:

http://192.168.2.1 ↔

The login window appears; see Figure 3-1.

#### Figure 3-1 Login window

Connect to 19	2.168.2.1
R	
£1) C	
∐ser name:	<b>1</b>
Password:	Remember my password
-	OK Cancel

2. Enter your username and password and click OK.

The default admin username is **admin** and the default admin password is **admin**. The Status window appears; see Figure 3-2. Figure 3-2 Status window

CELL Pipe 7130 - Mozilla F	Firefox Rockmerke Toole Help			
CELLPipe <sup>™</sup> 7130 Residential Gatewar		💦 🧎 🧉	<b>5</b> 1 <b>6</b> 2 .	
Status	Chattan > Orantana lafa			
System mit	Status > System into			
VDSI	Version Info		Account Status	
DHCP Lease Table	Model Name	6Ve B2130	1 Number:	Disabled
WiFi Associate Table	Firmware Version	1759n	2 Number:	Disabled
Statistics	Belease Date	2009/01/23 12:00	3 Number:	Disabled
⊗ Network			4 Number:	Disabled
A Milli Cotun	System Info		5 Number:	Disabled
WiFi Settip	System Up Time	0:0:59:4	6 Number:	Disabled
MELSoundu	System Loading Average	1.43	7 Number:	Disabled
MEI Access	Total Memory	53472	8 Number:	Disabled
Circuroll Setup	Used Memory	27308	9 Number:	Disabled
~ Filewall Setup	Free Memory	26164	10 Number:	Disabled
Port Range Forwarding				
Virtual Server Basic	Network - WAN Status		Network - LAN Status	
Virtual Server Advance	WAN Connection 1	PPPoE (VLAN ID: 6)	LAN IP Address	192.168.1.1
Jemilitarized Zone	WAN IP Address		LAN NetMask	255.255.255.0
UPDP	WAN NetMask		LAN MAC	00:00:27:CC:81:12
-itter	WAN Gateway		DHCP Enable	DHCP Server
NAT Passtnrougn	WAN DNS1		WLAN MAC	
JRL Filter	WAN DNS2		WLAN SSID	
~ Advanced Setup	WAN Connection 2	PPPoE (VLAN ID: 36)		
Route Setting	WAN IP Address			
Bridge MAC Filter	WAN NetMask			
Dynamic DNS	WAN DNS1			
System Log	WAN DNS2			
	WAN Connection 3	DHCP (VLAN ID: 7)		
QoS Scheduler	WAN IP Address			
QoS IP Policy	WAN NetMask			
QoS ALG	WAN DNS1			
<sup>⊗</sup> Telephony	WAN DNS2			
	WAN MAC	00:00:27:CC:81:10		

The status window is described in Chapter 4, "Status".

**Note:** Once you have logged in for the first time, you should change your login password. See the System Setting section in the Utilities chapter for instructions.

END OF STEPS

#### Configuration menus

All configuration and management of the CellPipe 7130 RG is done using the web configuration tool. Click on the **Status**, **Network**, **WiFi Setup**, **Firewall**, **Advanced Setup**, **QoS** and **Utilities** tabs to view the configuration menus or information located in each directory.

The menus used to configure basic settings are located in the **Status** menu of the web page used for management; for more information, see the Status chapter.

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# 4 Status

### Overview

### Purpose

This chapter describes the contents of the Status menu, which contains the status information for the CellPipe 7130 RG, its connections, and the connected hardware.

Click the Status drop-down menu to open the Status menu.

#### Contents

This chapter covers the following topics:

System Info	4-1
Device Table	4-3
VDSL	4-4
DHCP Lease Table	4-6
WiFi Associate Table	4-7
Statistics	4-8

### System Info

The System Info window displays the current status of the software, system time, memory, and WAN connection.

Select **System Info** in the **Status** menu to access the System Info window; see Figure 4-1. The System Info window is the home page of the configuration menus.

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File Edit Yiew Higtory	Hookmarks Lools Help			
CELLPipe <sup>™</sup> 7130 Residential Gateway	<u></u>	😪 🏅 🧉	1 62 。	
Status				
System Info	Status > System Info			
Device Table				
VDSL	Version Info		Account Status	
DHCP Lease Table	Model Name	6Ve.B2130	1 Number:	Disabled
WiFi Associate Table	Firmware Version	1.7.5.9p	2 Number:	Disabled
Statistics	Release Date	2009/01/23 12:00	3 Number:	Disabled
➢ Network	Custom Info		4 Number:	Disabled
🗢 WiFi Setup	System IIn Time	0.0.60-4	5 Number:	Disabled
W/Fi Setting	System Up Time	1.42	6 Number:	Disabled
W/Fi Security	System Loduing Average	52472	7 Number:	Disabled
WIFI Access	Total Memory	33472	8 Number:	Disabled
尽 Firewall Setup	Esec Memory	27300	9 Number:	Disabled
Port Range Forwarding	Thee Methory	20104	10 Numper:	Disabled
Virtual Server Basic	Network - WAN Status		Notwork   AN Statue	
Virtual Server Advance	WAN Connection 1	PPPoE (VLAN ID: 6)	I IN ID Address	192 168 1 1
Demilitarized Zone	WAN IP Address		LAN NetMask	255 255 255 0
UPnP	WAN NetMask		LAN MAC	00:00:27:00:81:12
Filter	WAN Gateway		DHCP Enable	DHCP Server
NAT Passthrough	WAN DNS1		WI AN MAC	
URL Filter	WAN DNS2		WLAN SSID	
Advanced Setup	WAN Connection 2	PPPoE (VLAN ID: 36)		
Route Setting	WAN IP Address			
Bridge MAC Filter	WAN NetMask			
Dynamic DNS	WAN DNS1			
System Log	WAN DNS2			
	WAN Connection 3	DHCP (VLAN ID: 7)		
QoS Scheduler	WAN IP Address			
QoS IP Policy	WAN NetMask			
QoS ALG	WAN DNS1			
× Telephony	WAN DNS2			
× 18040	MAN MAC	00:00:27:00:81:10		

#### Figure 4-1 System Info window

Table 4-1 describes the fields of the System Info window.

Table 4-1 Field descriptions

Field	Description
Version Info	
Model Name	The model name of the modem.
Firmware Version	The current version of the firmware.
Release Date	The release date of the firmware.
System Info	
System Up Time	The amount of time the system has been operational.
System Loading Average	The average time for the system to load.
Total Memory	The memory capacity of the system in kb/s.
Used Memory	The memory used in the system.
Free Memory	The free memory in the system.
Network - WAN Status	
WAN Connection 1 to 3	The WAN connection method.
WAN IP Address	The IP address of the WAN interface.
WAN NetMask	The subnet mask of the WAN interface.
WAN Gateway	The gateway IP address for the WAN interface.
WAN DNS1	The primary DNS for the WAN connection.

Field	Description
WAN DNS2	The secondary DNS for the WAN connection.
WAN MAC	The MAC address of the WAN connections.
Account Status	
1 to 10 Number:	The status (Enabled or Disabled) of accounts 1 to 10.
Network - LAN Status	·
LAN IP Address	The IP address of the LAN interface.
LAN NetMask	The subnet mask of the LAN interface.
LAN MAC	The MAC address of the LAN interface.
DHCP Enable	The status of the LAN DHCP.
WLAN MAC	The WLAN MAC address of the WLAN interface.
WLAN SSID	The service set identifier used to identify the particular WLAN connection.

### Device Table

The Device Table displays information about the hardware connected to the CellPipe 7130 RG.

Select **Device Table** in the **Status** menu to access the Device Table; see Figure 4-2.

Figure 4-2 Devic	e Table				
i CELL Pipe 7130 - Mozilla Firefo	ox				
<u>File E</u> dit <u>V</u> iew History <u>F</u>	<u>l</u> ookmarks <u>T</u> ools <u>H</u> elp				10 <sup>10</sup> 1010
CELL Residential Gateway		<b>@</b> 6	1 61	<u>6</u> 2	
Status System Info Device Table	Status > Device Table				<u> </u>
VDSL DHCP Lease Table	Number of Device in your Home	e Network: 1			
WiFi Associate Table	Host Name	IP Address	Attached By	Physical Address	
Statistics	margaret-tvucjm	192.168.1.33	Ethernet	00:0D:60:76:B8:53	
LAN Setting					
WAN Setting					
🗢 WiFi Setup					
W/Fi Setting					
WIFi Security					
WIFi Access					
🖉 Firewall Setup					
Port Range Forwarding					
Virtual Server Basic					
Virtual Server Advance					
Demilitarized Zone					
UPnP					
Filter					
NAT Passtnrougn					
A dramond Cotum					
Advanced Setup					
Bridge MAC Filter					
Dypamic DNS					
System Log					
♦ OnS Setun					
QnS Scheduler					
QoS IP Policy					
QoS ALG					
Vert Telephony					
Vtilities					•

Table 4-2 describes the fields of the Device Table.

Table 4-2 Field descriptions

Field	Description
Host Name	The name of the device connected to the gateway.
IP Address	The IP address of the client device.
Attached By	The type of connection.
Physical Address	The MAC address of the client adapter.

### VDSL

The VDSL window displays the VDSL connection status and data.

Select **VDSL** in the **Status** menu to access the VDSL window; see Figure 4-3.

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<u>File E</u> dit <u>V</u> iew Hiştory <u>B</u>	ookmarks <u>T</u> ools <u>H</u> elp			
CELLPipe <sup>™</sup> 7130 Residential Gateway	🔊 💦 a	້ 🚰	<b>62</b>	
Status System Info Device Table	Status > VDSL			
/DSL	Downstream line rate			
HCP Lease Table	VDSL2 Firmware Version		2.1.0r18a13-1	
VIFi Associate Table	VDSL2 Link Status		DOWN	
Statistics	Downstream line rate			
☆ Network	Upstream line rate			
AN Setting	Bearer Downstream payload rate			
VAN Setting	Bearer Upstream payload rate			
☆ WiFi Setup	Downstream attainable payload rate			
WFi Setting	Downstream attainable line rate			
WFi Security	Downstream Training Margin			
WFi Access	Downstream delay			
Firewall Setup	Upstream delay			
ort Range Forwarding	Tx total power			
/irtual Server Basic	FE Tx total power			
/irtual Server Advance	VDSL Estimated Loop Length			
emilitarized Zone	G.Hs Estimated Near End Loop Length			
JPnP	G.Hs Estimated Far End Loop Length			
ilter				
IAT Passthrough				
IRL Filter				
Advanced Setup				
Route Setting				
Bridge MAC Filter				
ynamic DNS				
System Log				
oS Scheduler				
loS IP Policy				
ALC ALC				

Figure 4-3 VDSL window

Table 4-3 describes the fields of the VDSL window.

Table 4-3	Field descriptions
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Field	Description
VDSL2 Firmware Version	The version of firmware in use.
VDSL2 Link Status	The status of VDSL2 link.
Downstream line rate	The rate of the downstream data transfer in kb/s.
Upstream line rate	The rate of the upstream data transfer in kb/s.
Bearer Downstream payload rate	The estimated downstream payload rate in kb/s.
Bearer Upload payload rate	The estimated upload payload rate in kb/s.
Downstream attainable payload rate	The achievable downstream payload rate in kb/s.
Upstream attainable line rate	The achievable upstream payload rate in kb/s.
Downstream Training Margin	The downstream margin used for training DSL in dBm.
Downstream delay	The downstream delay in s.
Upstream delay	The upstream delay in s.
Tx total power	Total power used in transmission.
FE Tx total power	Total power used in Fast Ethernet 100BASE-TX.
VDSL Estimated Loop Length	The estimated VDSL loop length in m.

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Field	Description
G.Hs Estimated Near End Loop Length	The estimated G.handshake (ITU G.994.1) near end loop length.
G.Hs Estimated Far End Loop Length	The estimated G.handshake far end loop length.

### **DHCP** Lease Table

The DHCP Lease Table displays the DHCP settings.

Select **DHCP Lease Table** in the **Status** menu to access the DHCP Lease Table; see Figure 4-4.

Figure 4-4 DHCP Lease Table

CELL Pipe 7130 - Mozilla Firefo	ox	1. 11.1.					
File Edit View History E	jookmarks <u>l</u> oc	us <u>H</u> elp					
CELLPipe <sup>™</sup> 7130 Residential Gateway			<b>R</b>		1 62		0 0
System Info Device Table	Status > D	HCP Lease 1	Table				
VDSL	No.	IP	MAC	HOST NAME	VENDOR CLASS	IDENTIFIER	EXPIRED
DHCP Lease Table	1	192.168.1.33	00:0d:60:76	b8:53 margaret-tvucj	n MSFT 5.0		2Days, 23Hours, 20Min E2Sooc
WiFi Associate Table							330m 333665
Statistics							
☆ Network							
AN Setting							
VAN Setting							
☆ WiFi Setup							
MFi Setting							
MFi Security							
MFi Access							
尽 Firewall Setup							
Port Range Forwarding							
/irtual Server Basic							
/irtual Server Advance							
emilitarized Zone							
IPnP							
ilter							
IAT Passthrough							
JRL Filter							
Advanced Setup							
Route Setting							
iridge MAC Filter							
ynamic DNS							
System Log							
☆ QoS Setup							
JoS Scheduler							
JoS IP Policy							
QoS ALG							
× Telephony							
∀ Utilities							

Table 4-4 describes the fields of the DHCP Lease Table.

### Table 4-4 Field descriptions

Field	Description
IP Address	The IP address of the DHCP client computer.
MAC Address	The MAC address of the DHCP client computer.
Host Name	The host name of the DHCP client computer.

### WiFi Associate Table

The WiFi Associate Table displays the connected clients.

Select **WiFi Associate Table** in the **Status** menu to access the WiFi Associate Table; see Figure 4-5.

Figure 4-5 WiFi Associate Table



Table 4-5 describes the fields of the WiFi Associate Table.

Table 4-5 Field descriptions

Done

Field	Description
NO.	The number index of the client computer.
MAC	The MAC address of the client computer.
Rate	The connection mode of the wireless network.
Vendor Class Identifier	Identifies the client's platform for the DHCP lease.
Expired	The period of time that the DHCP lease will expire.

### Statistics

The Statistics window displays the number of bytes that have been received and transmitted by the LAN and WAN interfaces.

Select Statistics in the Status menu to access the Statistics window; see Figure 4-6.

CELLPipe™7130			61	<b>6</b> 2	 0 0	
System Info	Status > Statistics					
evice Table	WAN Info					
/DSL	RX bytes		0			
OHCP Lease Table	RX Packets		0			
MFi Associate Table	RX Errors		0			
Statistics	RX Dropped		0			
Retwork	TX bytes		0			
AN Setting	TX Packets		0			
A/AN Setting	TX Errors		0			
⊗ MiEi Sotun	TX Dropped		0			
MEI Setting	TX Collisions	 	0			
ME Security	RX bytes	 	2070725			
MEI Accord	BX Packets		19084			
A Financell Cature	RX Errors		0			
~ Firewall Setup	RX Dronned		0			
fort Range Forwarding	TX bytes		21147400			
/irtual Server Basic	TX Packets		23884			
/irtual Server Advance	TX Errors		0			
Demilitarized Zone	TX Dropped		0			
JPnP	TX Collisions		0			
iter						
NAT Passthrough						
JRL Filter						
Advanced Setup						
Route Setting						
Bridge MAC Filter						
Dynamic DNS						
System Log						
aoS Scheduler						
20S IP Policy						

Figure 4-6 Statistics window

Table 4-6 describes the WAN and LAN fields of the Statistics window.

Table 4-6 Field descriptions

Field	Description
RX bytes	The number of bytes that have been received.
RX Packets	The number of packets that have been received.
RX Errors	The number of packets that have been received with errors.
RX Dropped	The number of packets dropped after being received.
TX bytes	The number of bytes that have been transmitted.
TX Packets	The number of packets that have been transmitted.
TX Errors	The number of packets that have been transmitted with errors.
TX Dropped	The number of packets dropped after being transmitted.

Field	Description
TX Collisions	The number of packets collided when transmitted.

.....

.....

Status

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# 

### Overview

### Purpose

This chapter explains how to configure the network settings for the CellPipe 7130 RG from the Network menu.

Click the Network drop-down menu to open the Network menu.

### Contents

This chapter covers the following topics:

LAN Setting	5-1
WAN Setting	5-3

### LAN Setting

The LAN Settings include the IP address, subnet mask, DHCP settings, DHCP relay, and static IP lease.

Select LAN Setting in the Network menu to access the LAN Setting window; see Figure 5-1.



### Figure 5-1 LAN Setting window



Table 5-1 describes the fields of the LAN Setting window.

Table 5-1	Field	descrip	tions
-----------	-------	---------	-------

Field	Description
IP Address	The IP address of the LAN interface in dotted decimal notation. The default is 192.168.1.1. You can change this address as needed to an address that is reserved for private use. The range of private addresses is 192.168.1.1 to 192.168.255.254.
Subnet Mask	The subnet mask of the IP addresses in your LAN; for example, 255.255.255.0.
DHCP Server	If enabled, the CellPipe 7130 RG assigns IP addresses, an IP default gateway, and DNS servers to computers that support the DHCP client; for example, Windows 95, Windows NT.
DHCP Starting IP Address	The first value of contiguous IP addresses.
DHCP Ending IP Address	The last value of contiguous IP addresses.
DHCP Lease Time	The time period during which the computers retain the IP addresses assigned to them.

Field	Description
Static Lease	The set MAC associations and IP addresses. Assign the static IP lease to the designated client's adaptor.
Not Assign IP	The client's MAC address to be filtered from the DHCP lease.
Apply Changes	Click to save your changes.

### WAN Setting

The WAN settings include the configuration for both the Bridge Mode and Routed Mode.

Select **WAN Setting** in the **Network** menu to access the WAN setting window. You can configure the WAN in Bridged Mode (see Figure 5-2) or Routed Mode (see Figure 5-3).

### **Bridged Mode**

When bridge mode is selected, the basic functions of the router, such as the firewall, route setting, DHCP server, DDNS, QoS, and UPnP, are disabled.

Select the **Bridged Mode** option from the **WAN>Hybrid** setting window to enable the Bridged Mode WAN setting; see Figure 5-2.



Figure 5-2 Bridged mode WAN settings window

![](_page_31_Figure_4.jpeg)

Table 5-2 Field descriptions

Field	Description
Bridged Mode	When the bridged mode radio button is selected, the CellPipe 7130 RG only uses MAC addresses. The basic functions of the router such as the Firewall, Route, DHCP Server, DDNS, and UPnP will be disabled.
Apply Changes	Click to save your changes.

#### **Routed Mode**

If the Routed Mode option is selected the CellPipe 7130 RG uses IP addresses and subnet masks. The functions of the router such as the Firewall, Route, DHCP Server, DDNS, and UPnP can be enabled.

Select the **Routed Mode** option from the **WAN>Hybrid** setting window to enable the routed mode WAN setting; see Figure 5-3.

CHIL PTpe /130 - Mozilla	ntrefox			
Die guit view miscory ge	Noniais Toos Beb			
	http://192.168.2.1/			
CFILPine™7130		((()))		
Residential Gateway	🔊 🔊	່ 🌒 🏹	62	
System Lisage	Network > WAN Setting			
Device Table	Hetwork - Mail County			
VDSL	O Bridged Mode			
DHCP Lease Table	Routed Mode			
WIFi Associate Table	[PPPoE#1]			
Statistics	VLAN >	O Untagged	_	
∧ Network		Always use ID: 7		
LAN Setting	Priority >	0 (0 - 7)		
WAN Setting	User Name >	UserName@vdsl.c		
WEI Setting	Password >	•••		
WiFi Security	Access Concentrator	>		
WIFi Access	Service Name >			
	Mode >	~		
Port Range Forwarding		Connect on demand: Max	cidle time 1200 s	
Virtual Server Basic		Always on		
Virtual Server Advance	Ontions >	<b>O</b> Manual	Connect	
Demilitarized Zone	opuons 2	Authentication Mode :		
UPnP		MTH (bytes):	Auto 1492	
niter NAT Passtbrouch		into (bytes).	Manual Manual	
URL Filter			⊖ Manual	
Advanced Setup	✓ [ PPP₀E#2 ]			
Route Setting	VLAN >	O Untagged		
Bridge MAC Fitter		Always use ID: 200		
Dynamic DNS	Priority >	5 (0 - 7)		
System Log	User Name >			
R QoS Setup	Password >	•••		
QoS Scrieduler	Access Concentrator	>		
Gos ALG	Service Name >			
× Telephony	Mode >			
∀ Utilities		Connect on demand: Max	cidle time 1200 s	
		Always on		
	Ontions >	<b>Manual</b>	Connect	
	Options >	Authentication Mode -		
		Size of subnet ·	255 255 255 0	
		MTII (hytes):	Auto 1402	
		into (bytes).	Manual Manual	
		Allow Traffic From :		
		Allow Hallic From.	CI LAN & WEAN	
	[DHCP]			
	VLAN >	O Untagged		
		Always use ID : 3		
	Priority >	5 (0 - 7)		
	DHCP Option :			
	802.1x >	Disable 🚩		
	Host Name >	1-1-10-10-01-010-010		
	Domain Name >	mynetwork		
	Vender Class ID >			
	Client ID >	61	(DHCP Option 61)	
	MTU(bytes):	• Auto 1500		
		✓ Manual		

### Figure 5-3 Routed Mode WAN setting window

Table 5-3 describes the fields of the Routed Mode WAN setting window.

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Table 5	-3 Fie	ld desc	riptions
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Fields	Description
[PPPoE#1] to [PPPoE#2]	Enable one or both of the supported VLAN over PPPoE.
VLAN	
Untagged	Enable if a VLAN ID is not being used.
Always Use ID	Enable if a VLAN ID is being used and enter the ID number (between 2 to 4094).
Priority	Enter a priority level from 0 to 7 to define user priority.
User Name	Enter the user name for the PPPoE connection.
Password	Enter the password for the PPPoE connection.
Access Concentrator	The access concentrator is optional. Consult with your ISP for information.
Service Name	The service name is optional. Consult with your ISP for information.
Mode	·
Connect on demand: Max idle time	Select to have the router connect to the Internet only when you choose to do so. Enter a max idle time to specify the maximum number of idle seconds after which the connection is dropped.
Always on	Select to always have the router connect to the Internet.
Manual	Select and then click <b>Connect</b> to manually connect the router to the internet. Click <b>Disconnect</b> to end the connection.
Options	
Authentication Mode	<ul> <li>Select the authentication mode from the drop-down menu. Options include:</li> <li>CHAP + PAP</li> <li>CHAP</li> <li>PAP</li> <li>This is optional. Your ISP will provide this information if it is necessary.</li> </ul>
MTU (bytes)	Enable <b>Auto</b> to set the maximum transfer unit to the default (1492), or enable <b>Manual</b> to manually enter a unit.
Apply Changes	Click to save your changes.

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![](_page_34_Picture_1.jpeg)

### Overview

### Purpose

This chapter explains how to configure the WiFi settings for the CellPipe 7130 RG from the WiFi setup menu.

Click the WiFi Setup drop-down menu to open the WiFi Setup menu.

### Contents

This chapter covers the following topics:

WiFi Setting	6-1
WiFi Security	6-3
WiFi Access	6-5

### WiFi Setting

The WiFi Setting window enables you to configure the common wireless and WiFi 1 settings.

Click on **WiFi Setting** in the **WiFi Setup** menu to access the WiFi Setting window; see Figure 6-1.

### Figure 6-1 WiFi Setting window

CELL Pipe 7130 - Mozilla Fire File Edit View History	efox Bookmarks Tools	Help								 ×
CELL Residential Gateway			<u>@</u>		61	<b>6</b> 2	0	• •	•	
A Status     System Info     Device Table     VOSL     DHCP Lease Table     WiFI Associate Table     Statistics     Autwork LAN Setting     WiFI Setting	WiFi > WiFi Common : WiFi 1:	Setting WiFi > TxPower > Radio Mode > Auto Channel Se Channel > Beacon Period > DTIM Period > SSID > Hide SSID > TxRate > WDS >	lect > WL Ot At Dic	Enable v 100 bg v 0 ff v 6 v 100 11 AN_01 ff v ato v able v	% (1-100) ms Beacon Unit					
Account Setting										•

Table 6-1 describes the fields of the WiFi Setting window.

Field	Description
Common	
WiFi	To configure the wireless LAN settings, click the drop-down menu and select <b>Enable</b> . Select <b>Disable</b> to end the wireless LAN.
TxPower	Enter a percentage to set the parameter of your transmission power consumption.
Radio Mode	Click the drop-down menu and select either <b>b/g</b> , <b>b</b> , or <b>g</b> for the wireless mode.
Auto Channel Select	Click the drop-down menu and select <b>On</b> to have the wireless access point automatically select the channel with the least interference. Select <b>Off</b> to configure manually.
Channel	If the auto channel select is off, you can manually select the wireless access point. The default is 6.
Beacon Period	Enter a beacon period in ms to determine the frequency of the beacon to keep the network synchronized. This is optional.

Field	Description
DTIM Period	Enter a value to set the delivery traffic indication message. The DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages.
WiFi 1	·
SSID	Enter an SSID name (max. 32 characters). The SSID is an alphanumeric name shared by devices on the wireless network.
Hide SSID	Click the drop-down menu and selct <b>On</b> to hide the SSID or <b>Off</b> to allow others to see your SSID.
TxRate	Click the drop-down menu and select <b>Auto</b> to automatically determine the transmission rate or select a transmission rate (max. 54Mbps).
WDS <sup>1</sup>	Click the drop-down menu and select Enable if you would like to enter the wireless MAC of other wireless access points or routers that are in the same WDS.
Apply Changes	Click to save your changes.

#### Notes:

1 If you enable WDS, check that all other WDS APs are enabled, configured with the same channel, SSID, and encryption keys, and that each AP has a different LAN port IP address.

### WiFi Security

WiFi security enables you to configure the WEP, WPA, or WPA2 security settings.

Select **WiFi Security** in the **WiFi Setup** menu to access the WiFi security window; see Figure 6-2.

Figure 6-2	WiFi Sec	urity windo	w
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CELL Pipe 7130 - Mozilla Fire File Edit View History	fox Bookmarks Tools Help					X
CELLPipe <sup>™</sup> 7130 Residential Gateway		<b>R</b>	61	62		0
Status System Info Device Table VDSL DHCP Lease Table WFI Associate Table Statistics	WiFi > WiFi Security WiFi: WPS > Authentication >	● Push Button Co ● Open ⊂ Shar	ntrol CPIN ed CWPAPSK CW	/PA2P8K		*
A Network LAN Setting WAN Setting WFI Setting WFI Setting WFI Setting WFI Security WFI Access A Firewall Setup	Security Type > WEP >	© NORE © WEA	C TKIP C AES 64 bits C Key1 Key3 Key4		Generate	
Port Range Forwarding Virtual Server Basic Virtual Server Advance Demilitarized Zone UPnP Filter	WPA-PSK > 802.1x >	Preshared Key Radius Server Radius Port Radius Key	192 168 10 1 1812 12345			
INA I Passificuyn URL Filer Route Setting Bridge MAC Filter Dynamic DNS System Loa		Apply Cha	anges			-
OoS Setup     GoS Scheduler     GoS Policy     GoS ALG						-

Table 6-2 describes the fields of the WiFi Security settings window.

Table 6-2	Field desc	riptions
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Field	Description
WPS	Enable <b>Push Button Control</b> or enable <b>PIN</b> and enter your PIN number and click <b>Start</b> .
Authentication	<ul> <li>Select one of the following encryption methods for the wireless network:</li> <li>Open</li> <li>Shared</li> <li>WPAPSK</li> <li>WPA2PSK</li> <li>WPA</li> <li>WPA2</li> </ul>
Security Type	<ul> <li>Select one of the following for the security type:</li> <li>NONE</li> <li>WEP</li> <li>TKIP</li> <li>AES</li> </ul>

Field	Description
WEP	
Passphrase Key	Select a level of encryption ( <b>64 bits</b> or <b>128</b> <b>bits</b> ). Enter a passphrase key consisting of 8 to 63 alphanumeric characters and click <b>Generate</b> .
Key 1 to 4	Select either <b>Key1</b> , <b>Key2</b> , <b>Key3</b> , <b>Key4</b> . Enter a WEP key in the respective field. The WEP key must:
	• contain letters from A to F and numbers from 1 to 9
	• contain 10 characters for 64 bit and 26 characters for 128 bit encryption
WPA-PSK	
Preshared Key	Enter a preshared key consisting of 8 to 63 alphanumeric characters.
802.1x	
Radius Server	Enter the IP address of the RADIUS server.
Radius Port	Enter the port number of the RADIUS server.
Radius Key	Enter the key of the RADIUS server.
Apply Changes	Click to save your changes.

### WiFi Access

The WiFi Access window enables you to configure restrictions on some of the clients associated with the gateway.

Select **WiFi Access** in the **WiFi Setup** menu to access the WiFi Access window; see Figure 6-3 below.

🥹 CELL Pipe 7130 - Mozilla Fi	refox							_ 8
<u>File E</u> dit <u>V</u> iew Hiştory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp							-
CELL Residential Gateway		R	ø	67	62	0 0	0 0	
System Info	WiFi > WiFi Access							
Device Table								
VDSL	WiFi 1:							
OHCP Lease Table	Access Policy:	ahle 🔻						
Statistics							T	
A Network	MAC 1:			MAC 2				
AN Settion	MAC 3:			MAC 4				
VAN Setting	MAC 5:			MAC 6	: 📃 : 📃 :			
≈ WiFi Setun	MAC 7:			MAC 8				
VIFi Setting	MAC 9:			MAC 10				
WFi Security	MAC 11			MAC 12				
WiFi Access	MAC 13			MAC 14				
Firewall Setup	MAC 13.			MAC 14	$\vdash$ $\vdash$ $\vdash$			
ort Range Forwarding	MAC 15:			MAC 10				
/irtual Server Basic	MAC 17:			MAC 18	╘╘╘			
/irtual Server Advance	MAC 19:			MAC 20				
emilitarized Zone	MAC 21: : :			MAC 22	: : : : : : : : : : : : : : : : : : : :			
JPnP	MAC 23:			MAC 24				
ilter	MAC 25:			MAC 26				
Al Passthrough	MAC 27			MAC 28				
Advanced Cetur	MAC 20			MAC 30				
<ul> <li>Auvanceu Setup</li> <li>Auvanceu Setup</li> </ul>	MAC 23.			MAC JU			-	
iridae MAC Filter	MAC 31:	· · · ·		MAC 32				
ynamic DNS								
ystem Log			Apply Chang	les				
	1							
oS Scheduler								
loS IP Policy								
RoS ALG								
≈ Telephony								
Account Setting								

### Figure 6-3 WiFi Access window

Table 6-3 describes the fields of the WiFi Access window.

Table 6-3 Field descriptions

Field	Description			
Access Policy	Select one of the following:			
	• <b>Disable</b> to turn off WiFi filtering			
	• <b>Allow</b> to permit access from the specified MAC address.			
	• <b>Deny</b> to deny access from the specified MAC address.			
MAC 1 to 32	Enter up to 32 MAC addresses to control access for these addresses.			
Apply Changes	Click to save your changes.			