# RX50 Wireless Router & Access Point (for FCC)



#### FCC ID: 2AON8RX50

# **User Manual**

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Appendix I I

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 or more 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your 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.



Specific Absorption Rate (SAR) information:

This CPE meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. FCC RF Exposure Information and Statement the SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue.

Federal Communication Commission (FCC) Radiation Exposure Statement

When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

# **Chapter 1: Product Overview**

# **1.1 Introduction**

Thanks for purchasing RX50 broadband router. This router, equipped with the latest 5G and Wireless-N technology, is a full function network equipment. It can support you to freely access network connection in different occasions, such as meeting, exhibition, factory, or home. When using SIM card to access network, you could also make phone calls or send text messages Simultaneously. RX50 has extraordinary performance, and is very easy to use and manage. It supports multiple devices sharing one broadband link and ISP account, to offer you great convenience and cost efficiency. In the meanwhile, it provides multiple management functions, to configure system, DHCP server, firewall, static route table. RX50 broadband router is easy to configure, so non-professionals could configure the device. Before you start to configure RX50, please read this user guide, to fully understand the functions of RX50.

#### 1.1.1 Product Layout



Т	$\mathbf{F}^{1}$	n
1	1.1	υ

Num ber	LED	Description
1	TEL	Telephone on: Blue,Solid
2	Internet(5G)	Register to 5G(not connect): Blue , Solid Connected to 5G network: Blue , Blink- 0.5s
3	Internet (LTE/3G)	Register to LTE(not connect): Blue , Solid Connected to LTE network: Blue , Blink- 0.5s Register to 3G(not connect) : Blue , Solid Connected to 3G network : Blue , Blink- 0.5s No SIM card or No network Service: Light is Not on
4	WiFi (2.4G/5G)	<ul> <li>2.4G WiFi</li> <li>1. 2.4G WiFi is enabled(No Users):Blue , Solid ;</li> <li>2. Users connected to 2.4G WiFi (or by WPS):Blue, Blink- 0.5s</li> <li>3. 2.4G WPS is enabled(flash 120s if no users connected ):Blue, Blink- 0.2s</li> <li>5G WiFi</li> <li>1. 5G WiFi is enabled(No Users):Blue , Solid ;</li> <li>2. Users connected to 5G WiFi (or by WPS):Blue, Blink- 0.5s</li> <li>3. 5G WPS is enabled(flash 120s if no users connected ):Blue, Blink- 0.2s</li> </ul>
5	Power	Power on: Blue,Solid

#### KEY

Number	Connections	Description
6	WPS	Click this button to start WPS encryption.
7	Power	Turn on the router.
8	USB	External U-disk or hard disk.
9	TEL	Connect the telephone

#### Interface

Number	Connections	Description
10	LAN	LAN ports provide connections to Ethernet enabled devices.
11	WANT AN	If the WAN sets to the WAN Mode, it will be as the WAN
11	WAN/LAN	interface. If WAN sets to LAN mode, it will be a LAN interface.
		Connect Power to DC-Jack 12V/3A Power Adapter. Using power
12	Power Adapter	supplies with a different voltage from the one included with the
		RX50 will cause damage and void the warranty.
12	Decet	Press the reset button for about 6 seconds to restore the device to the
15	Keset	factory default settings.
14	SIM Card	Insert SIM card to automatically identify registration.

# **Chapter 2: Quick Setup Guide**

#### 2.1 System Requirements

- Ethernet ADSL/Cable with an Ethernet port (RJ-45) OR Internet SIM card
- Computer with Windows, Macintosh, or Linux-based operating system with an installed Ethernet adapter.
- Internet Explorer version 8.0 or above, Google Chrome, Safari, Firefox, Opera.

#### 2.1.1 RX50 Placement

You can place RX50 on a desk or other flat surface. Please keep RX50 away from heating. For optimal performance, please place your RX50 in the center of your home (office), in a location that is away from any potential interference source, such as metal walls or microwave oven.

## 2.2 Network Setup

## 2.2.1 WAN Setting



- Connect Ethernet cable between your PC/Notebook and one of the Two available LAN ports on RX50.
- Connect Ethernet cable between WAN ports of your ADSL/CABLE modem and WAN port of RX50. Please make sure your ADSL/CABLE modem is working properly. Contact your ISP if you have any question.
- 3) Power up RX50.

### 2.2.2 3G/4G/5G Setting

When using SIM card to access network, you could also make phone calls or send text messages.



- 1) Insert SIM card into the port.
- RX50 support hot swap : The SIM card can be replaced without shutting down the RX50.
- 3) Power up RX50. Press Power button, then front panel will light up and remain stable.

# **Chapter 3: Product Setting**

## 3.1 Configuration wizard

## 3.1.1 TCP/IP Setting

Enter [Start Menu]—Select [Control panel]—Select [Network]—Select [Local Area Connection]—Select [Properties]



Select [Internet Protocol (TCP/IP)]—Click [Properties]



RX50 supports [DHCP] function, please select both [Obtain an IP address automatically] and [Obtain DNS server address automatically].

General	Alternate Configuration					
You car this cap for the	n get IP settings assigned au ability. Otherwise, you nee appropriate IP settings.	utomatically d to ask yo	/ify iur n	our n etwor	etwork k admir	supports histrator
() Ot	otain an IP address automat	tically				
OUs	e the following IP address:					
IP ac	ldress:		¥.	4.	- 75	
Subr	iet mask:				10	
Defa	ult gateway:		)	÷.	1	
() Oł	otain DNS server address au	utomatically	,			
	e the following DNS server	addresses:				
Prefe	erred DNS server:			4	i.	
Alter	nate DNS server:			)	÷.	
V	alidate settings upon exit				Adv	anced

## **3.2** Connection the Device

1) Ethernet Connection: Connect Ethernet cable between your PC/Notebook and one of the Two available LAN ports on RX50



#### 2) Establish Wi-Fi connection:

you must ensure that the computer equipped with a wireless network card. If the computer showed the presence of Wi-Fi connectivity, the wireless LAN is available. Otherwise, you need to check your wireless network card is working properly.

In the Wi-Fi list, select the SSID consistent with RX50 Wi-Fi, click "Connect". Then enter the correct Wi-Fi password, click "OK". A moment later, Wi-Fi connection is displayed next to the name, Wi-Fi connection is successful.

탇	R528-2 Conne	2ymmmm 2 ected		
(i.	CLARC Conne Proper	_INTERNET_23 cted, secured <u>ties</u>	4	
				visconnect
(in	family- Secure	<b>test</b> ed		
(in	R810A Secure	ed		
(ce	R800 Secure	ed		
<u>Netv</u> Chan	vork &	Internet settin s, such as making	<u>gs</u> a connectio	n metered.
<i>M</i> . Wi-Fi		Airolane mode	(ျာ) Mobile hotspot	

10

# **Chapter 4: Configuration**

#### 4.1 Login management page view

Whenever you want to configure your network or the RX50 you can access the Configuration Menu by opening the web-browser and typing in the IP Address of the RX50. For example, <u>http://192.168.1.1</u>

Note: If you changed the default IP Address assigned to the RX50, make sure to enter the correct IP Address.



You will go to the overview and log in page. The Factory default user name is admin, and

the default password is **claro1234.** It is recommended to change the admin password for security purpose. Its default language is Spanish.



#### **4.2 Home**

This page mainly displays settings and network status information, such as IP address, SIM

Total Word With LAN SUS WI Seguridad Statema	Version del Firmware : PCD_RS0_CLARX0_RK_V
	HW Version : RX50A_V3.0
Local	🖿 🖬 Tall StM no vinculada 🖩 🖶 🖬 1 👫 0 🔤 Sale
LAN	Dial Type
Dirección IPv4 192.168.1.1	Dial Type
IPv4 Subnet Mask 255.255.255.0	
Números de usuarios conectados en 2.4G	I-04 WAR
Números de usuarios o	Dirección IPv4
conectados en 5G °	DNS Primario
Modem 5G/4G/3G	Tiempo conectado
Estado de SIM SIM no vinculada	
Intensidad de la señal 🔐	IPV6 WAN
Tipo de Señal	Dirección IPv6
Nuevo Mensaje 0	DNS Primario
Estado de conexión IPV4 Desconectando	DNS secundario
Estado de conexión Desconectando	liempo conectado
Estade Beaming	Estadistica de tráfico
Información del	IPv4 TX bytes
Operador	IPv4 RX bytes
Sistama	IPv6 TX bytes
	IPv6 RX bytes
riempo de actividad 00:30:47	

# 4.3 Wizard

You can quickly change the LAN configuration, set the APN, and modify and

set the SSID and password of 2.4G and 5G by the wizard function.

• The factory default 2.4G WIFI SSID is CLARO\_wxyz (where wxyz are the 2.4G MAC' s last 4-digits), and

the factory default 2.4G WIFI Key is CLAROIXXX (XXX are the 2.4G MAC' s last 3-digits)

• The factory default 5G WIFI SSID is CLARO\_5G\_wxyz (where wxyz are the 5G MAC' s last 4-digits), and

the factory default 5G WIFI Key is CLAROIXXX (XXX) are the 5G MAC's last

3-digits) .

Local	Wikard WAN	SMS WiFi	Seguridad			Ve	rsion del Firmw V Version : RXI	vare : PCD_R50_CLA 50A_V3.0	RO_DR_V1
Wizard						🖦 📟 Tal SIM no	vinculada 🛄	@ <b>#</b> *1 <b>#</b> *0 [	Salir
	Pase 1 Auntes LAN Configuración LAN Dirección IP 192-168 Mascara subnet IP 255 255.	Paso 2 Apates WAN 1.1 255.0							
								Siguiente	

	5						**													Claros
Local	Wizard	WAN	LAN	SMS	WIFI	Seguridad	Sistema									Version del HW Version	Firmware RX50/	: PCD_R50_ V3.0	CLARO	DR_V1
Wizard														•	💻 Tal s	M no vinculad	la 🖬 🤇	B B 1 B	0	Salir
	Paso 1 Ajustes LAN			Paso 2 Ajustes WA	2 N		Paso 3 Ajustes With													
	Consultar c	on los servici ación WAN	os de prov	eedor por es	tos ajustes	. Si no estás :	seguro, dejelo	os con los valo	pres predeterm	iinados.										
	Date	Tipo os de conexi os de conexi	ón IPv4 ón IPv6	Perfit U PID- PID-	MTS 1 1	Ajustar														
	Total de	Portil PID-1 números : 1			Tipo UMTS		Nom	bre		APN	Usuario	Co	itraxoña		Protocolo IPv4v6					
	Atra	a																Siguiente		
Local	Wizard	WAN		SMS	WiFi	Seguridad	*** Sistema									Version del HW Version	Firmware	: PCD_R50_ 	CLARO	DR VI
Wizard															🔲 Tatsi	M no vinculad	a 💷 (		0	Salir
	Paso 1 Ajustes LAN			Paso 2 Ajustes WA			Paso 3 Ajustes WIFi													
	Ajustes V	NFI-2.4G	NTERNET	_ee2																
	Contrasef	la CLARObe	ie2																	
	Ajustes V	VIFI-5G	NTERNET,	5GHz																
	Contraser	a CLARObe	e0																	
	Atrás	5																Realizado		

After the setting is completed, you select confirm, and the device will pop up the countdown 90 seconds prompt box. After the timing is completed, the device will restart automatically.

Local Wizard WAN	SMS WiFi Segurida	d Sistema		Version del Firm HW Version : RX	c ware : PCD_R50_CLARO_DF (50A_V3.0	taro <sup>2</sup> R_V1
				📫 📟 Tull SIM no vinculada 🛙		
Pago 1 April 20 SSD CLAPO NTERVET Contrasenta CLARCEME SSD CLAPO NTERVET Contrasenta CLARCEME SSD CLAPO NTERVET Contrasenta CLARCEME	Paper 2 Applies VAN	Pase 3 Autors WT	LEstá seguro que lo ingresado está correctamente?		Realizado	

Local	Wizard WAN	LAN SMS WIFI S	eguridad Sistema			Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RXG0A_V3.0
	Paso 1 Ajustes LAN Ajustes WFI-2.40 SSID CLARO_L Contraseña CLARObe	Paso 2 Autos: WAN NTERNET_ee2 se2	Paso 3 Ajustes WiFi			
	Ajustes WiFi-5G SSID CLARO_II Contraseña CLARObe	NTERNET_SGHz] x0		El dispositivo està reiniciandose, Por favor espere 90 segundos.	]	
	Atrás					Realizado

## 4.4 WAN

#### 4.4.1 Connection

Dialing Mode:

Select the Auto Mode, after you turn on RX50 without additional operations, the device will automatically connect to the network; select the Manual Mode, you need to manually connect to the network after opening the RX50 management page.

A 22	🖻 🧏 🍙 🔍	🕅 🏕				
Local Wizard	WAN LAN SMS WIFI	Seguridad Sistema				Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A_V3.0
WAN						🗈 💷 Tull SIM no vinculada 🛽 🖶 💷 1 💷 0 🛛 Salir
Conexión	Conexión Operación de cone	exión				
Ajustes de conexión	Red celular preferida	Modo Automático 🗸 🛛 C	ambiar			
Ajustes de APN	Modo en Roaming	Desactivado 🗸 🦳 Cambia	r			
Modem 5G/4G/3G		Familia IP	Estado	Perfil UMTS		
PIN	Estado WAN	IPv4	Desconectando	PID-1		
PLMN	Estado WAN	IPv6	Desconectando	PID-1		

#### 4.4.2 Connection Setting

Two Internet access modes are available: LAN mode and WAN mode. The default is wan mode.

WAN Mode: Users can surf the Internet through the WAN network. If it is not connected to the

WAN network, the user can still dial-up the Internet via the SIM card.

LAN Mode: Users can dial-up internet via SIM card. Users can choose to switch between different

networks in the 5G/4G/3G Modem function. Under this function, users cannot access the Internet through the WAN network.

Local Wizard	NAN EN SMS E Segundad	Version del Firmiene: PCD, RSO, CLARO, DR, VI HW Version : RSX0A, VS.0
WAN		🖿 🍽 Tell SIM no vinculada 💷 🚳 💵 1 💷 0 🚃 Saiz
Conexión Ajustos de conexión Ajustos de APN Modem 6G/4G/3G PIN PLMN	Ajustes de Ethernet Tipe de Ethernet Ajustes WAN Modo WAN Seleccionar esto, el usuano necesita configurar los ajustes WAN. O Modo LAN Choose this, user need to configure 3G/LTE Settings.	Aplear
Local Wizard	WAR LAN SMS WE Seguridad Statema	Version del Firmwore - PCD_F60_CLARO_DR_V1 HW Version : RCK0A_V3 0
WAN		🖿 🗮 Tel SIM no vincutada 🛙 🕮 🖷 I 💷 o 🗾 Salir
Conexión Ajustes de custesión Ajustes de APN Modem \$G/4G/3G PIN PLMN	Ajustes de Ethernet Tipo de Ethernet Ajustes WAN WAN Connection Type DHCP (Auto Config) V Host Name(optional) DHCP (Anto Config) PPPOE (ADSL)	Aplicar

DHCP: Dynamic IP address connection that configures the router to automatically obtain IP address from DHCP server on the ISP network.

A 12		Claro-			
Local Wizard	WAN LAN SMS WIFT Segurified Statema Version del Firmware : PCD_RGD_CLAF HWVersion : RXSOA_V30	RO_DR_V1			
WAN	🖿 🖿 Tal SM no vinculada 🔍 🐡 💷 1 🕮 e	Səlir			
Conexión	Ajustes de Ethernet Ajustes WM				
Ajustes de conexión	WAN Connection Type DHCP (Auto Config) •				
Ajustes de APN	Host Name(optional) (KSV)				
Modem 5G/4G/3G	Aplicar				
PIN					
PLMN					

Static Mode: Please enter the IP address information provided to you by your ISP. The subnet mask of RX50 is pre-configured as 255.255.255.0. Other configurations can be made, but not recommended. This feature is for advanced users. Your ISP should also provide the Default Gateway, Primary DNS and Secondary DNS (optional).

A 14	n 🧏 🐟 🗕	🕅 🏕			6
Local Wizard	WAN LAN SMS WIF	Seguridad Sistema			Version del Firmware : PCD_R50_CLARO_E HW Version : RX50A_V3.0
WAN				📼 🗖 Tal sin	I no vinculada 💷 🌐 💷 1 🎫 0 🔜 Sa
onexión	Ajustes de Ethernet	po de Ethernet Ajustes WAN			
justes de onexión	WAN Connection Type	STATIC ~			
ustes de APN odem 5G/4G/3G	Dirección IP Subnet Mask	0.0.0.0			
N	Default Gateway DNS Primario	0.0.0.0			
	DNS secundario	0.0.0.0			Aplicar

PPPoE: Please enter the PPPoE username and password assigned by your ISP. Enable the Keep Alive option to automatically re-establish the connection when an application attempts to access the Internet again.

A 14		Card
Local Wizard	WAN LAN SWS WiFi Seguridad Sistema	Version del Firmware : PCD_R50_CLARO_DR_V HW Version : RX50A_V3.0
WAN		📼 📼 Tal SiM no vinculada 🛽 🌐 💷 1 💷 0 🔤 Salir
Conexión	Ajustes de Ethernet Tipo de Ethernet Ajustes WAN	
Ajustes de conexión	WAN Connection Type PPPOE (ADSL)	
Ajustes de APN	User Name   test	
Modem 6G/4G/3G	Verify Password	
PIN	Operation Mode Keep Alive V	
PLMN		Aplicar

#### 4.4.3 APN Setting

You can customize the network configuration or manually add the new APN and set default APN.

A 12		🔍 🕅 🏕	
Local Wizard	WAN LAN SMS	WiFi Seguridad Sistema	Version del Firmware : PCD_RS0_CLARO_DR_V1 HW Version : RXS0A_V3.0
WAN			🖿 🖬 1 🖬 CHNUNCOM 3G 🕮 🌑 👘 1 💷 0 🔜 Sairt
Conexión	Perfil		
Ajustes de conexión	Lista de perfiles	(*)China Unicom  Ajuste de conex	lón
Ajustes de APN	Perfil ID Nombre	PID-1 China Unicom	
PIN	APN	3gnet	
PLMN	Contraseña		
	Tipo PDP Autenticacion preferente	IPV4/IPV6 V PAP/CHAP V	
			Aplicar Borrar

# 4.4.4 5G/4G/3G Modem

There are five types of networks can be choose: Automatic, ENDC, 5G only, LTE only,



WCDMA only

#### 4.4.5 PIN

Open your PIN, if you reboot the device, you need to login management page, and the page will prompted to enter the correct PIN code, you can use the SIM card. PIN / PUK code supplied with the SIM card provided by your carrier, please consult your carrier.



#### 4.4.6 PLMN

Automatic:The RX50 will automatically select the most appropriate network registration connection.



Manual: click the "query" button and select the available network to register the connection.

A 13		
Local Wizard	WAN LAN SMS WiFi Seguridad Sistema	Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A_V3.0
WAN		🖿 🗖 1 🕼 CHN-UNICOM 3G 💷 🐵 1 💷 0 📰 Salir
Conexión Ajustes de	PLMN rxm	
conexión	Modo         Manual         V           Status         MCC         MNC         Nombre del Operador         Acceso de tecnología	
Ajustes de APN Modem 5G/4G/3G	Actual 460 1 UNICOM UMTS Total de números : 1	
PIN		Actualizar En cola
PLMN		

## 4.5 LAN

#### 4.5.1 LAN

You can configure the LAN port parameters here. IP Address: Set LAN IP address of the router. IP Subnet Mask: Set subnet mask of the router.

Local Wizard	NATI DATA SMS WWT Seguridad Statema	Wession del Firmware : PCD .PS0_CLAR0_DR_V1 HV Version : R050A_V3.0
LAN		🖿 = 1 Tul chnuncom 30 🛡 💿 🍽 1 🍽 0 🗾 Sair
LAN DHCP LAN IPv6	LAN PP-4 Dirección IP 192.168.1.1 Mascara subnet IP 255.255.255.0	Aplicar

#### 4.5.2 DHCP

You can configure the DHCP Settings parameters here.

Start IP Address & End IP Address: The IP range obtained through DHCP by LAN host. Lease Time: The time limit for the IP address configuration information obtained by the client device at the DHCP server

Local Wizard	WAN LAN SMS WEI Segundad Sistema	Version del Firmware - PCD, RS0_CLARO_DR, VI HW Version - RXS0A, V30
LAN		
LAN DHCP LAN IPv6	DHCP         Servidor DHCP         Servidor            Modo DHCP         Servidor          Inicio de IP         192.168.1.10           Inicio de IP         192.168.1.100         Inicio de IP         192.168.1.100           Tiempo pendiente (minutes)         720         Inicio de IP         192.168.1.100	Aplicar

The leased host menu displays the wired and wireless IP address and MAC address of all currently connected devices, hostname and the remaining time of connection.

Local Wizard	WAN LAN SAS WE: Seguridad	Version del Firmwere : PCD_RS0_CLARO_DR_V1 HW Version : RS05A_V3.0
LAN		
LAN DHCP	DHCP Servidor DHCP Servidores rentados	
LAN IPv6	#         Nombra del servidor         Dirección MAC           Total de números : 0	10 v porpágina (ILLS) v página (ILLS) v página (ILLS) Dirección IP Remponstante Reiniciar

## 4.5.3 LAN IPV6

On this page you can set the IPV6 address of the LAN side network. You can choose to assign automatically or manually.

	🐑 🏂 🙆 🖄 🦸 🖨 - Hanne - Ha	
Local Wizard	WAN LAN SMS WiFi Seguridad Sistema	Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A_V3 0
LAN		📾 🖷 1 Tail Chin-Unicom 3g 💷 🖷 1 🏴 0 🔤 Sair
LAN	LAN IPv6	
DHCP LAN IPv6	Lan IPv6 Setting © Config Ipv6 LAN Automatically Interface Address (prefix length required); fe80::1/64	
	DHCPv6 Server Setting Activado Z Interface ID From (0:0:0:2 Interface ID To (0:0:0:6	
	Radvd Setting Activado 2 AdvManagedFlag Activado 2 AdvChricConfigFlag 2 RDNS5 # Perfekt Type #auto O static	
	DNSv6 Setting DNS mode:	Save & Apply

# 4.6 SMS

When using SIM card to access network, you could also send text messages at the time. You can send, receive, reply, forward, and save test messages. You can send 10 text messages at the same time, SMS number intervals with a semicolon. This version also supports the USSD function.

Local	Vizard	WAN		SMS	WiFi	Seguridad	Sistema						Version del Fin HW Version : Fi	тиvare : PCD_R56 X50A_V3.0	0_CLARO_DR_V1
SMS												🖻 🎟 1 Tul Ci	IN-UNICOM 3G	R 🔮 🛡 1 E	0 Salir
Nuevo Mei USSD Bandeja d Bandeja d Borrador Ajustes SJ	e entrada e salida 45	Nu	ечо Меп	isaje Er Mer	Envio SMS	160		_				-	Salvar	Enviar	
Local	Vizard	WAN		SMS	WiFi	Seguridad	Sistema						Version del Fin HW Version : F	mware : PCD_R5 X50A_V3.0	CLARO_DR_V1
SMS												📾 💷 1 Tal c	-IN-UNICOM 3G	8 0 . 1	0 Salir
Nuevo Mer USSD Bandeja dd Bandeja dd Borrador Ajustes SM	nsaje e entrada e salida 15	Em	vio USSI US	D Envio	D USSD	viar				Leer USSD:			2		

You can view the received SMS in the inbox, the received SMS in the Outbox, and the stored SMS in the draft box.

A 24	🕋 🛼 👧 🔘 🗑 🦑	
Local Wizard	WAN LAN SMS Wit Segurided Sistema	Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A_V3.0
SMS		📾 📟 1 🖬 CHNUNICOM 36 💷 💷 1 💷 o 📷 Sair
Nuevo Mensaje	Bandeja de entrada Local Tarjeta SIM	
USSD Bandoia do entrada	Ayuda: Coloque el mouse para ingresar y operar el ingreso de SMS, presione mostrar el contenido del mensaje.	
Bandeja de salida	Número Message	10 v por página v página FEI
Borrador	Total de números : 0	
Ajustes SMS		Borrar todo

Also you can check the SMS center number and can set the storage location of messages, and so on.



## 4.7 Wi-Fi

# 4.7.1 Basic(The project supports 2.4G and 5G WiFi)

You can set and change some WiFi related information on this page, such as mode, channel, bandwidth, SSID name, password, encryption method, etc. WiFi is turned on by default. It shows some information of the wireless connection.

	5		2				**												Claro-
Local	Wizard	WAN	LAN	SMS	WiFi	Seguridad	Sistema							Vi H	ersion del I W Version	Firmware : : RX50A_	PCD_R5 V3.0	0_CLAR	O_DR_V1
WiFi													<b>•</b> • 1	Tal CHN-U	INICOM 3	G 💷 🏾	<b></b> 1	• 0	Salir
Básico		Bá	sico	WIFI-2.4G	WIFI-5G							 							
Eiltro MAG	-				Activado														
Lista de	_				Modo	802.11	B/G/N/AX r	nixed 🖌											
Estacione	is .				Canal	Automá	tico 🕶												
				Ancho	o de Canal	HT20		~											
					SSID	CLARO_	INTERNET_	ee2											
				55	olate SSID														
				MAX d	e Clientes	10													
			Т	ipo de En	criptación	WPA Pe	rsonal 🗸												
				N	Modo WPA	Automá	tico (WPA o	WPA2) 🗸											
				Tipo c	le Cifrado	TKIP y A	ES ¥												
				WPA	Password	CLAROE	lee2												
																	Apl	icar	
																			_
	M		, ,		(13)														
	Wirourd	WAN		SMS	WiEi	Sacuridad	Sistama								/ersion del	Firmware	PCD R	50 CLAR	
Cocur	- That is	insia (	Court		1	Disgundad	biatening								W Version	1: RX50A	V3.0		
MIEL																			
WITH													<b>I</b>	Tel CHN-I	UNICOM :	3G 🖪 🌘	0	- 0	Salir
1.00																			
Básico		Bá	isico	WIFI-2.4G	WIEI-SG														
WPS																			
Filtro MA	с				Activado														
Lista de					Mode	802.11	A/N/AC/A)	((5GHz) mixed	~										
Estacione	is .				Cana	I Automa	itico	~											
				Anche	o de Cana	HT20		~											
					SSIC	CLARO	INTERNET_	SGHz_e											
				s: Is	olate SSIE														
				MAX d	le Clientes	10													
			h	lipo de En	criptación	WPA Pe	rsonal 🗸												
					Modo WPA	Autom	itico (WPA c	WPA2) V											
				Tipo	de Cifrado	TKIPy	AES -												
				WPA	rassword	CLAROI	Jeeu												
																	Ар	licar	
																			_

WPS is the easiest way to establish a connection between a wireless client and a wireless router. You don't have to choose encryption mode and fill in a long encryption password every time you try to set up a wireless connection.

WPS has two connection modes: PBC and PIN.

IAN LAN	SMS WIFI	Security System	
WPS	Band	id [2.4GHz ▼]	
	Enable Configure Method	le <mark>⊄</mark> nd PBC ▼	
	WPS	WPS Ban Enab Configure Metho	M     LAN     SMS     WiFi     Security     System       WPS     Band     2.4GHz •       Enable     Image: Configure Method

Take 2.4G WiFi as an example:

If your WiFi Enabled, Device supports WPS (WiFi Protected Setup) and you have forgotten or do not wish to enter your password to connect to your RX50, you may use the following available procedures for quick access to WiFi.

Open the WPS:

WPS can be opened by two methods.

• PBC methods:

You press the PBC function on the page and confirm, 120 second countdown prompt box will pop up on the page. At the same time ,press the WPS button of other wireless network cards to start matching search.

If the pairing connection between other wireless network cards and RX50 is successful within 120 seconds, it will prompt that the connection is successful and the countdown will not be counted down.

If the other wireless network card and RX50 are not paired successfully within 120 seconds, the countdown ends.

Local Wizard	WIN RAN SUS WE Seguritad Sitema	
Básico WPS Filtro MAC Lista de Estaciones	WPS Banda 2.4GHz v Activado 2 Configurar el método PBC v Aplicar	
	Completado Por favor espere 120 segundos	

#### WPS PIN authentication:

The connection to the RX50 is achieved by inputting the relevant PIN key into the enrollee PIN text box, which you may find in the wireless network card. When you applied. It will lasting 120 seconds. The premise is that the wireless network card or the clients must support WPS PIN authentication. Like the following pictures.

Local Wizard	WAN LAN SMS WIFI Segundad	Vesion del Firmeire : PCD_R50_CLARO_DR_V1 HW Vesion : RXS04_V30
WiFi		
Básico WPS Filtro MAC Lista de Estaciones	WPS Banda 2.4CHz v Activado 2 Configurar el método (PIN v) @ Inscribir el PIN:	Aplicar

#### 4.7.3 MAC Filter

Deny list Stations: If you add the computers or wireless devices MAC address into the list, it can prohibiting the computers or wireless devices connect to the RX50.The computes or wireless devices MAC address which are not in the list can able to connect to RX50.

Allow list Stations: Opposite with Deny list Stations. It only allows the devices in the list to

connect to the RX50, other wireless devices are unable to connect to the RX50

Disable: It means close the function of the MAC Address Filter.

1	🐑 🏂 🗠 🖳 🕅 🦑 👘 👘	
Local Wizard	WĀN LAN SMS WiFi Seguridad Sistema	Version del Firmware : PCD_RS0_CLARO_DR_V1 HW Version : RX50A_V3.0
WiFi		📾 🗮 1 Tail Chin-Unicom 3g 💷 🌐 💷 1 💷 0 🚃 Satr
Básico	Filtro MAC Filtro MAC WiFi-2.4G MAC Filtro MAC WiFi-5G	
WPS	Modo de filtro de dirección MAC. Desactivado	
Filtro MAC		10 v por página III v páginal III
Lista de Estaciones	Activo Nombre Total de plimeros 10	Dirección MAC Borrar
		Aplicar

### 4.7.4 Station List

Show the information of 2.4G and 5G wireless devices which are connected to the RX50.

Local Wizard	WAN LAN SMS WH Seguridad	Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A_V30
WiFi		🖿 🖛 1 🖬 CHNUNICOM 36 🕮 🖤 1 👫 0 🗰 Sair
Básico	Lista de estaciones Lista wifi/2.4G Lista wifi/SG	
WPS		10 v por página
Filtro MAC	*	Direction MAC SSID
Lista de Estaciones	Total de números : 1	00.18.02.84.90.54 CLARO_INTERNET_662

# 4.8 Security

#### 4.8.1 Firewall

Firewall configuration: You can Disable or Enable the Firewall function. Also you can set the matching packets rule to receive or reject.

Local Wizard	WAN LAN SMS WEI Seguridad	Version de Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX59A_V3.0
Seguridad		🖿 🗮 1 🕼 CHNUNCOM 3G 🔍 🔍 📲 1 🎫 0 🔤 Sak
Firewall NAT DMZ	Firewall Configura Entradas al Firewall IPV4 Entradas al Firewall IPV6 Firewall activado @ Desactivado O Activado Paquetes permitido @ Caido O Aceptado	Aplicar

If you want to enable the firewall function, please go to the IPV4 Firewall Entries or IPV6 Firewall Entries tab and configure the necessary parameters. You can add the rule in the list.

Local Wizard	WAR         SMS         WEI         Seguridad         Statema	Version del Firmware : PCD_RS0_CLARO_DR_V1 HW Version : NX504_V3.0
Seguridad		📾 📟 1 🖬 CHN-UNICOM 3G 🗟 🐵 🗣 1 💷 0 🔜 Sair
Firewall NAT DMZ	FireWall         Configurar         Entradas al Firewall IPV4         Entradas al Firewall IPV6           #         Fuende IP         Fuende IP         Fuende al puerto         Desdeo del puerto           1         0.0.0         0         0         0         0           Total de números : 1         1         0.0.0         0         0         0         0	IO v por página         IEI.E. I v página/J.E.I.           Destérer a pronto         Prodocolo           O         Ninguno v           Añadir         OK           Añadir         OK

## 4.8.2 NAT

# 4.8.2.1 Configure

You can set enable IPSEC VPN Pass Through, PPTP VPN Pass Through, L2TP VPN Pass Through, Web server WWAN Access and Ping Access on WAN and so on.

Web WWAN Access : Remote management allows you to manage the router from a remote location.

Ping Access on WAN: The router's WAN port will not respond to any ping requests.



#### 4.8.2.2 Port Forward/Virtual Server

After you turn on the NAT function, you can add a new rule.

#### Port Forwarding

Port Forwarding: use the Port Forwarding function when you want different servers/client in your LAN to handle different service/Internet application type (e.g. Email, FTP, Web Server etc) from the Internet.

#### • Virtual Server

The Virtual Server allows you to re-direct a particular service port number (from the Internet/WAN Port) to a particular LAN private IP address and its service port number.



#### 4.8.2.3 ALG

ALG (Application layer firewall or application layer proxy firewall) usually described as a third-generation firewall. When a user on a trusted network intends to connect to a service on an untrusted network (such as the Internet), the application is directed to a proxy server in the firewall. The proxy server can pretend to be a real server on the Internet without any flaws. It can evaluate the request and decide to allow or deny the request based on a set of rules for a single network service. When ALG is used as a NAT traversal application, because we know that traditional NAT cannot change the IP address in the application layer, one of the most direct methods is to directly change the IP address of the application layer and bind it directly when it gets the private address of the terminal. Determine its public network address, and prepare for the intercommunication that may be involved in the future.

Local Wizard	Image: Wath LAN         Image: Wat	Version del Firmware : PCD_RE0_CLARO_DR_V1 HW Version . RX50A_V30
Seguridad		🖿 🖛 1 T4 CHNUNICOM 36 🔍 🐨 💵 1 💵 0 🗾 Sair
Firewall NAT DMZ	NAT     Configurar     Port Forward/Virtual Server     ALC       SIP ALC     Desactivado     V       FTP ALC     Activado     V       H32 ALC     Activado     V       TFTP ALC     Activado     V       OR EALC     Cartivado     V       PPTP ALC     Activado     V	Aplicar

#### 4.8.3 DMZ

Receive all the data from external network interface forwarded to "DMZ IP address"

**DMZ Address**: Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication.

A 22	🕋 🛼 🐟 🔍 🕅 🏕	
Local Wizard	WAN LAN SMS WiFi Seguridad Sistema	Version del Firmware : PCD_R50_CLAR0_DR_V1 HW Version : RX50A_V3.0
Seguridad		📾 💻 1 Tư chi-Unicom 36 🕮 🌒 📲 1 🖬 a 🔜 Sair
Firewall	DMZ	
NAT	Servidor DMZ	
DMZ		Aplicar
	Ч	

# 4.9 System

#### 4.9.1 About

RX50 displays some basic information, such as Device Name, FW version, IMEI, HW version.

# 

#### 4.9.2 TR069

TR069 is a communication protocol for communication between CPE and ACS. CPE can use this agreement to complete the necessary actions such as service activation, function setting, file upload and download, system detection, etc. initialization and operation management.

Enter the server address in the ACS URL column, through which you can find the set ACS User Name. Click the user name to see the parameters of the device, and run the corresponding functions by modifying the parameters.

A 14	🕋 晃 🐟 📖 🕅 💉	
Local Wizard	WAN LAN SMS WiFi Seguridad Sistema	Version del Firmware : PCD_RS0_CLARO_DR_v HW Version : RX50A_V3.0
Sistema		🖿 🖬 1 🖬 chnuncom 36 🛡 🕤 🗮 1 🖬 0 🔜 sar
Sobre	TR069	
TR069	RM Type: TR-069 V	
UPnP	ACS URL:	
Configuración	ACS User Name: admin	
Actualización de Firmware	ACS User Password: admin Periodic Inform: Activado  Pariodic Inform Internal: 95400 Periodic I	
Modem Upgrade	Request User Name: admin	
Contraseña	Request User Password: admin	
Fecha y hora		
Idioma		Aplicar
Diagnosis tool		
System Log		
Reiniciar		

#### 4.9.3 UPnP

UPNP, Universal Plug and Play. Router UPNP function is used to implement LAN computers and smart mobile devices, which automatically connect to each other peer-to-peer through the network, and the connection process does not require user participation.

	🗣 🍡 🗠 🖄 🛷
Local Wizard	WAN LAN SMS W#1 Segurided Sitema Veticon de Filmmate FAU, rod Lunku Lan Lan Haw Veticon de Filmmate FAU, rod Lunku Lan Lan Haw Veticon de Filmmate FAU, rod Lunku Lan
Sistema	🖿 🗮 1 🖬 Orbitunicom 36 🗉 🔍 🖷 1 💷 o 🎫 Sar
Sobre	UPnP
TR069	UPPP @Desactivado O Activado
UPnP	Anlicar
Configuración	
Actualización de Firmware	
Modem Upgrade	
Contraseña	
Fecha y hora	
Idioma	
Diagnosis tool	
System Log	
Reiniciar	

# 4.9.4 Configuration

Reset to Default: Restore the factory settings, all of the personal configuration will be deleted, all configuration pages will be restored to the factory defaults.



#### 4.9.5 Firmware Upgrade

The page allows you to upgrade the router's firmware. To upgrade the firmware of your router, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the Browse button to find the firmware file on your computer.

Local Wizard	Image: Watter         Image: W	Jaro- DR_V1
Sistema	🖿 🖛 1 🖬 chnuncom 35 🖛 💿 🕬 1 🖬 0 🚃	lir
Sobre	Actualización de Firmware	
UPnP	Router R50 actualizado Manual 🗸	
Configuración	Nombre del archivo 选择文件 未选择文件	
Actualización de Firmware	Estado Listo Actualizar	1
Modem Upgrade		Ĩ.,
Contraseña		
Fecha y hora		
Idioma		
Diagnosis tool		
System Log		
Reiniciar		

#### 4.9.6 Modem Upgrade

The page allows you to upgrade the modem's firmware. To upgrade the firmware of your modem, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the Browse button to find the firmware file on your computer.

Local Wizard	Image: Wark         Image: Wark	Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A_V3.0
Sistema		🖿 = 1 Tai chnunicom 36 💷 🕕 1 🎫 0 📰 Sair
Sobre TR069 UPnP Configuración Actualización de Firmware	Modem Firmware Upgrade Upgrade Modem Manualで Nombre del archivo 過請文件 未過算文件 Estado Listo	Actualizar
Modem Upgrade Contraseña Fecha y hora Idioma Diagnosis tool System Log Reiniciar		

#### 4.9.7 Password

You modify the login password of the administrator interface. After the modification is completed, the user page will be automatically logged out. At this time, you need to use the changed password to log in to the user page.

You can also set the time to automatically log out of the user interface. After setting the time, if there is no operation under the user interface within the set time, the user interface will automatically log out.

Local Wizard	WAN BAN SWS WIT Segundad	Version del Firmware: PCD_RS0_CLARO_DR_V1 HWVersion: RS50A_V30
Sistema		🖿 🖷 1 🖬 CHNUNICOM 3G 🔍 🔍 📲 1 💷 0 🔜 📾
Sobre TROSS UPAP Configuración Actualización de Firmware Modem Upgrade Contrastris Fecha y Inora Idiona Diagnosis teol Diagnosis teol System Log Reiniciar	Contraseña La sesión expiró (Min) 5 Nueva contraseña Reingrese la nueva contraseña	Aplicar

## 4.9.8 Date and Time

The local time can be synchronized or the time zone can be selected. Set different time zones according to your time zone.

You can set the daylight saving time, if the current month is within the daylight saving time period you set, then your current time will automatically increase by 1 hour.

Local Wizard	VAN         LAN         Suss         S	Version del Firmware : PCD_R50_CLARO_DR_V1 HW Version : RX50A, V3 0
Sistema		🛤 🖛 1 🖬 CHNUNCOM 3G 🖬 🚳 📭 1 📭 0 📰 Sair
Sobre TR069 UPnP Actualización de Firmware Modem Upgrade Contrasña Fecha y hora Idioma Diagnosis tool System Log	Feeda y hora     reada       Tiempo del actual sistema     2021/11/03 00.49:37     Syne with host       Zona de hora local     UTC-6 ~       Activar el horario del     UTC-6 ~       Activar el horario del     Omingo v       Inicio de fecha     Timmo v       Domingo v     de Abril ~ a 2       Hora de la dirección del servidor 1     Impool.ntp.org       Hora de la dirección del servidor 3     2mn pool.ntp.org	Aplicar

# 4.9.9 Language

You can change the Languages of different countries in this page. The default language is Spanish.

	🐑 🍡 😂 🖄 🦑
Local Wizard	WAN         LAN         SMS         WF1         Seguridad         Statema           VEX.00         HW Vex.01         HW Vex.01         HW Vex.01         HW Vex.01
Sistema	
Sobre	Idioma
TR069	
UPnP	Idioma Español - Aplicar
Configuración	Español
Actualización de Firmware	
Modem Upgrade	
Contraseña	
Fecha y hora	
Idioma	
Diagnosis tool	
System Log	
Reiniciar	

#### 4.9.10 Diagnosis tool

On this page, you can enter the local IP address or the IP address of the external network. After clicking Apply, the device will automatically ping the address you entered, and observe the status of the device through the log printed in the print box below. In the traceroute interface, you can ping the external network address. The return value will be printed below, and you can check whether the RX50 is accessed through the LAN network or the WAN network.

Local Wizard	Image: SMS         Image:	Version del Firmware : PCD R50, CLARO, DR V. HW Version : R550b, V.30
Sistema		🖿 🗮 1 🗽 CHNUNICOM 3G 🛡 🔍 🗮 1 🗮 0
Sobre	Advance	
TR069	Auvance Aggreation	
UPnP	Ping O traceroute      IP address 0.0.0.0	
Configuración		Aplicar
Actualización de Firmware		
Modem Upgrade		
Contraseña	result	
Fecha y hora		
Idioma		
Diagnosis tool		
System Log		
Reiniciar		

# 4.9.11 System Log

Enable Log: When this function is turned on, the log will be automatically printed out in the print box below, and the operating status of the device can be checked by observing the log. Enable Remote Log: Turn on this function, you can save the log to the set IP address. Enter the address where you want to store the Log in the Log Server IP Address.

Local Wizard	Image: Subscription of the second s	Version del Firmware : PCD_RS0_CLARO_DR_VI HVV Version : RXS0A_V3 0
Sistema		🖿 🗖 1 Tel Chin-Unicom 3g 🕼 🚇 💷 1 💷 0 🗾 Sate
Sobre TR069 UPnP Configuración Actualización de Firmware Modem Upgrade Contrasta Facha y hora Gidoma Diagnosis tool <b>System Log</b> Reiniciar	System Log Enable Log Enable Remote Log Desactivado v Log Server IP Address: Apply Changes	
	Reiniciar Borrar	

#### 4.9.12 Reboot

After clicking "OK", the page enters the countdown, except for the power light, the other four lights of RX50 are all off. After waiting for the countdown to finish, the RX50 restarts and the four lights that went out turn on again. The device connected to the RX50 can get the address again and connect to the network. Enter 192.168.1.1 in the browser to successfully enter the management page.

After clicking "Cancel", the page will return to the previous function page (parental control page).



# **Appendix I**

#### FAQ:

This Appendix provides solutions to some problems that could be seen when install and use the device. Please read the following instruction, it will help you to solve these problems. If you fail to solve your issues from this FAQ, please contact us.

Problem	Solution	
	Please make sure the wireless function of your PC is	
	turned on. If it is already on, please refresh the	
	network list.	
	Please make sure your PC is in the wireless signal	
Wireless device cannot connect	coverage of the device.	
to SSID.	Please make sure your device is away from the	
	electromagnetic interference.	
	Please make sure your device's wireless function is	
	turned on.	
	If the problem is still not solved, please try to reset your device	
	to default settings.	
	Please make sure your PC is in the wireless signal	
	coverage of the device.	
	Please make your device's DHCP function is turned	
	on.	
Cannot Access internet:	Please make sure your firewall is turned off.	
	If the problem is still not solved, and your PC has got connected	
	to the network, but the wireless icon shows an yellow	
	exclamation mark. It means your wireless card could not be	
	allocated an IP address. Please use the static IP settings, and fill	

	DNS and gateway according to instructions of your operator.	
Input IP, but fail to login to the administration page.	<ul> <li>Please make sure the problem is not caused by the Cache of the internet browser, please clean up the Cache.</li> <li>Please make sure the network connection is good, and the light of connected ports are on.</li> <li>Please make sure the username and password are correct</li> <li>If the problem is still not solved, and your PC already gets the IP address. You can try to use wireless connection or static IP methods to try it again.</li> <li>If connected via wireless connection, please try to ping 192.168.1.1 to see if there is any response. If responses are received, please check if you set an agent server for connection.</li> <li>If no agent server is set, then please not to set an agent server, and reset the device.</li> </ul>	
IP conflict ion when turn on the device:	<ul> <li>Please make sure if your LAN has other DHCP servers.</li> <li>Please make sure that IP address is not occupied by other computers or devices. If occupied, please change the IP address of that device to avoid the IP conflicts.</li> </ul>	

# **Appendix I I**

Safety warning: Read the user guide: Please read the user guide before using this device.

#### Stay away from interference:

All the wireless devices could be possibly interfered, and it will affect the performance of the device

#### Turn off the device in restricted area:

Please follow any instruction, turn off the device around airplanes, medical devices, gases, chemicals or explosive areas

#### **Qualified services:**

Please don't disassemble this device yourself. Please contact professionals to repair and install the device.

#### Accessories:

Please don't touch the device using wet hands, when it is in charge. Please only use the accessories and that are recognized to be compatible to the device.

#### **Danger of explosion:**

Turn off your device in any areas that explosion could possibly happen. Please follow all the notices in the areas where spark could cause fire or explosion.

#### **Operating temperature range:**

The equipment is used between 0  $^{\circ}$  and 45  $^{\circ}$ .

RX50