



WEB version

## PAC-MGT-RT-SIM-X Router Configuration — Jan 2024

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### Technical Support

[E: pacgdxsupport@comelit-pac.co.uk](mailto:pacgdxsupport@comelit-pac.co.uk)

T: +44 (0)170 7377203

### Customer Services

[E: pacgdxcustomerservice@comelit-pac.co.uk](mailto:pacgdxcustomerservice@comelit-pac.co.uk)

T: +44 (0)170 7377203

### Training

[E: trainingacademy@comelit-pac.co.uk](mailto:trainingacademy@comelit-pac.co.uk)

T: +44 (0)170 7377203

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## ii. **Aims**

This document describes the requirements and configuration required to implement the PAC-MGT-RT-SIM-X router on a PC running PAC access software when connecting to 500 series door controllers via PAC modems.

This document is for engineers, installers and users who are already familiar with PAC access control software and are implementing these changes into a known working system.

**Please contact the Technical Support Team if you have any questions before starting.**

## iii. **Compliance & Standards**



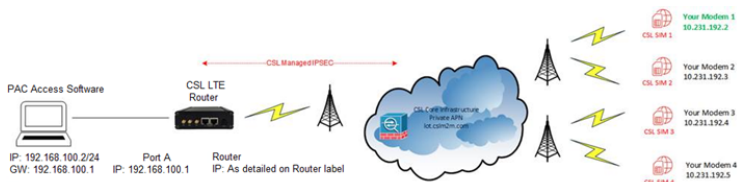
RoHS



## 1.0 Introduction

The PAC-MGT-RT-SIM-X Router has been introduced to replace on-premise PSTN\GSM modem connections from a PAC access software PC to 500 series door controllers, connected over either an 'over-air' connection (TRB142) or IP connectivity (TRB140).

The image below gives an example of the path created between PC and end points.

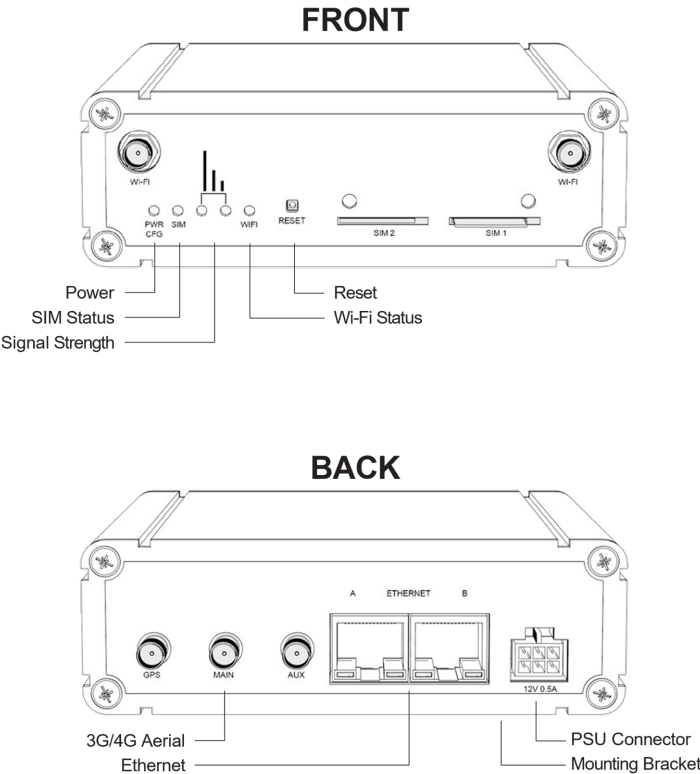


## 1.1 Requirements

- PAC-MGT-RT-SIM-X Router.
- IP or Serial Modems with CSL SIMs fitted.
- Broadband connection via network or PAC-MGT-RT-SIM-X Router built-in SIM.
- PC running PAC access software.

## 2.0 PAC-MGT-RT-SIM-X router layout

The connection layout for the router is shown below.



## 3.0 Configuration

This section will detail the process of connecting the PAC-MGT-RT-SIM-X Router to the PC and checking the site modem connections.

### 3.1 How to configure the PAC PC

To use the PAC-MGT-RT-SIM-X Router at the PAC PC, the PC must have a specific IP setting applied.

1. Configure the PC to have the following IP settings.

IP Address:	192 . 168 . 100 . 2
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 100 . 1

2. Connect the PC via an ethernet cable to Port A of the PAC-MGT-RT-SIM-X Router.
3. Check connectivity to the router by initiating a PING command to the router at the IP address detailed on the device label located on top of the router, or on the equipment box; this will check you have local connectivity.



**In the event of WAN communication issues, apply the DNS settings as below.**

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 100 . 2

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 192 . 168 . 100 . 1

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: 8 . 8 . 8 . 8

Alternative DNS server: 8 . 8 . 4 . 4

☐ Validate settings upon exit

Advanced...

OK Cancel

## **4.0 How to enable secure VPN connection**

This section will detail the process for connecting the PAC-MGT-RT-SIM-X Router to the CSL managed IPSEC tunnel.

### **4.1 How to configure the PAC PC**

1. Connect port B of the router to a broadband router or other wired network that has outbound internet access.
2. Port B on the PAC-MGT-RT-SIM-X Router acts as a DHCP client and will obtain IP address settings from the network it is attached to.
3. The router will establish the CSL managed IPSEC tunnel over the fixed/wired connectivity.

4.2

SIM connection

The PAC-MGT-RT-SIM-X Router is preconfigured with the SIMs already fitted in the SIM slots.

The best practice steps for connection are as follows.

Installation of the PAC-MGT-RT-SIM-X Router at the PC location

- Find a suitable location with good 4G coverage.
- Keep away from sources of interference i.e., monitors, fridges, power supplies, etc.
- The LED will show connection status (table on next page).

Aerial fitting and power up

- Fit the included Aerial to the rear connection port marked MAIN.
- Power up the Router using the supplied PSU.

Signal strength identification

- For best results ensure that both green signal strength LEDs are ON to indicate the Router has established good signal strength.
- OFF/ON LED status indicates a medium signal strength which is also acceptable.

The table below shows the LED indications:

LED STATUS		
	LED BEHAVIOUR	STATUS
Power / CFG	Green - double flash	Router is booting after power up
	Green - flashing quickly	Router is in factory config mode
	Green - permanently on	Router has completed boot process and is ready
SIM Status	Off	Router is not connected to a Mobile Data Network
	Green flashing	Router is attempting to connect to a Mobile Data Network
	Green on	Router has successfully connected to a Mobile Data Network
Signal Strength	Green – off/off	No cellular radio signal detected
	Green – on/off	Low cellular radio signal detected
	Green – off/on	Medium cellular radio signal detected
	Green – on/on	Good cellular radio signal detected

## UK Support Details

<b>GB</b>	Comelit-PAC Limited Waterside Park, 1 Crewe Road, Manchester, ME23 9BE. United Kingdom T: +44 (0)170 7377203 E: <a href="mailto:pacgdxsupport@comelit-pac.co.uk">pacgdxsupport@comelit-pac.co.uk</a>   W: <a href="http://www.pacgdx.com">www.pacgdx.com</a>
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