CDM-CDR Series Cellular Routers

Quick Start Guide

V1.55

CALL DIRECT CELLULAR SOLUTIONS

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CDM-CDR Series Routers
Quick Start Guide

Thank you for choosing the CDM-CDR Series Router from Call Direct. This guide will cover the CDM-882seu, CDR-780seu, CDR-790seu, CDR-7919 and CDR-990 (collectively referred to in this document as the CDM-CDR series). This guide will provide a series of step by step instructions to ensure the configuration of your router goes as smooth as possible.

Firstly please check off that you have received all the items in your package.

1	CDM-CDR Series Cellular Router
1	Cross over Ethernet cable
1	Plug in Power Supplies
Antennas	
1	CDM-882seu Black Right Angle Antenna (850MHz use) only or Gray Right Angle Antenna if intended use is on (2100/1900MHz)
2	CDR-780seu and CDR-790seu Black Right Angle Antennas (850MHz use) only or Gray Right Angle Antennas if intended use is on (2100/1900MHz)
2	CDR-7919 and CDR-990 (900MHz use) only Black Right Angle Antennas or Gray Right Angle Antennas if intended use is on (2100MHz)

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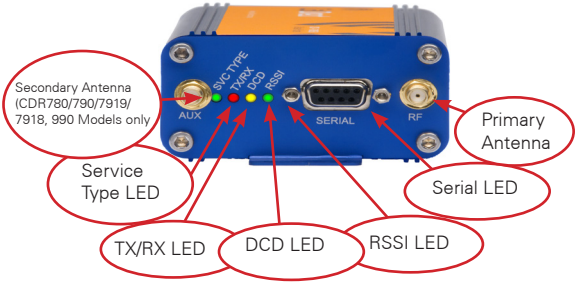

Service Type – Indicates the network you are on
- solid = 3G
- blink = EDGE
- off = 2G

TX/RX – Indicates the sending and receiving of date through the router

DCD- LED on Indicates routers connection to the network

RSSI – indicates network signal strength
- solid = Strong
- blink = Medium
- off = Poor

Serial port – used for configuration alternative to the html page. Or serial based data transfer

RF Port for connection of antenna (SMA connection)
- Black antenna for use on 850/900MHz networks
- Gray antenna for use on 2100/1900Mhz networks

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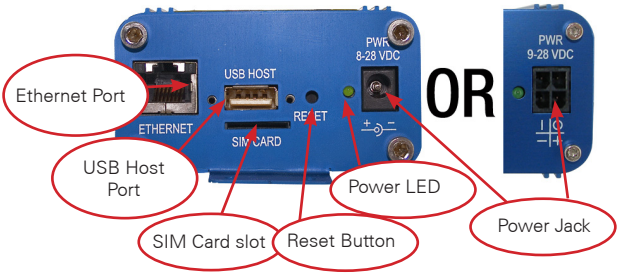

Figure-2 overview of the CDM-CDR series router

Ethernet Port - For direct connection to your device or number of devices through a hub or network router.
USB Host Port - For connection to external devices such as a memory stick or a GPS tracking device.
Sim Card Slot - For your chosen carriers supplied Usim required to activate a connection on to your chosen cellular network.
Reset Button - used to give the Router a full reboot
Power LED - On indicates the Router has powered up
Power Jack - Plug the power supply in here

Step One: Computer Preparation

The CDM-CDR is configured using a web browser, In order for your PC to be able to connect to the device configure your PC to obtain an IP address automatically from the CDM-800 series device using DHCP.
Windows XP users may use the following procedure.

- Follow the path Start -> Control Panel -> Network Connections. Right click Local Area Connection and select Properties to open the configuration dialogue box of Local Area Connection as per Figure-3.

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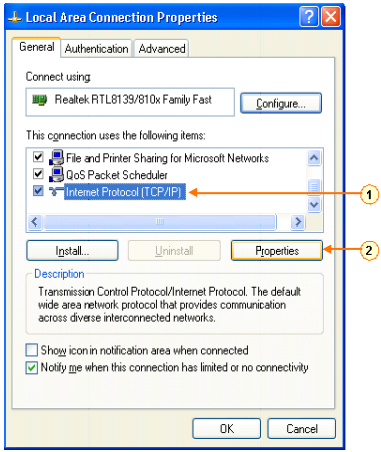

Figure-3: Configuration Window of Local Area Connection

- Find and click Internet Protocol (TCP/IP) from the protocol list box and then click the Properties button (as per Figure-2). The TCP/IP configuration window will pop up as per Figure-3.
- Under General tab, select radio button Obtain an IP address automatically and Obtain DNS server address automatically (See Figure-4). Then press OK button to close TCP/IP configuration window.
- Press the Close button to complete the computer preparation for CDM-CDR series device.

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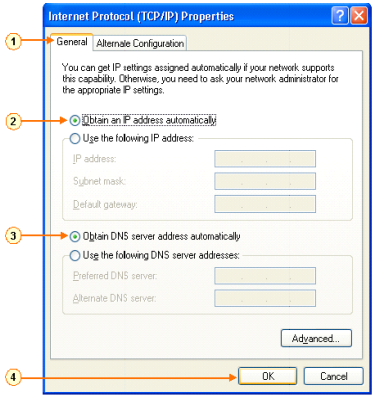
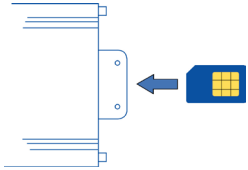


Figure-4: Configuration Window of TCP/IP

Step Two: Inserting SIM card

Inserting the SIM card
First make sure the SIM card in inserted correctly. You insert the SIM with gold side up and in the direction as shown below:



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Step Three: Physical Connection

- Install the supplied antenna to the CDM-CDR Series Router. This needs to be screwed to the RF/AUX Antenna connector(s).
- Connect the CDM-CDR Series Router to your apparatus with the supplied Ethernet Cable. One end of the cable is plugged in to the CDM-CDR Series Router's Ethernet Port; the other end is plugged in to the network port of your Ethernet device.
- Connect the input of Power Adapter to the mains and plug its output to the Power Jack of CDM-CDR Series Router. The Power LED on the panel should be illuminated.
- Wait for a while until Service LED (SVC TYPE) and RSSI LED turn solid green indicating that the CDM-CDR Series Router has booted up successfully.

To get connected to the CDM-CDR's configuration pages, open a web browser to the CDM-CDR's default IP address of 192.168.1.50
On connection you will be asked to supply a User Name: **admin** and Password: **password.**
If this is the first time you have used this SIM card chances are that the SIM will be locked if this is the case it will be indicated by the SIM Status showing ENTER PIN on the Status page (Figure-5) you will need to unlock it with a PIN number supplied with the SIM card by your chosen carrier.

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Figure-5: Status page showing ENTER PIN

If the SIM Status is ENTER PIN then do the following:

- Click on the Security Link tab on the left (Figure-6)

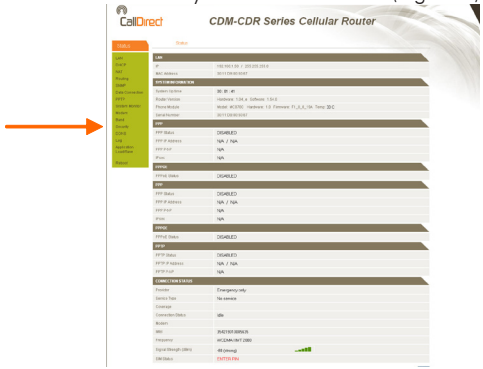

Figure-6: Status page Security Link tab location

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- On security page enter PIN code and confirm the PIN code. Then hit Save (Figure-7).

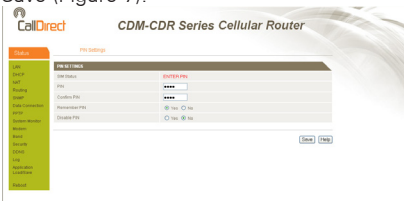

Figure-7: Security page PIN settings

- Once the SIM has been unlocked you will see a pop up confirming this.
- Now Click on the Status Button and the

Status page should look as below with SIM Status OK (Figure-8).

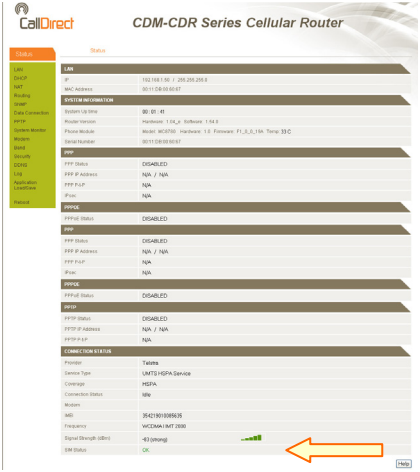

Figure-8: Status page for SIM Status OK.

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Step Four: Network Connection

- Click on the Status button and the status page of CDM-CDR Series Router Setup will now be displayed as per Figure-9. The PPP status on the page should be DISABLED because your new device is not enabled (see the area pointed by the red arrow). Click the Data Connection item on the left panel of the screen to activate the Data Connection page:

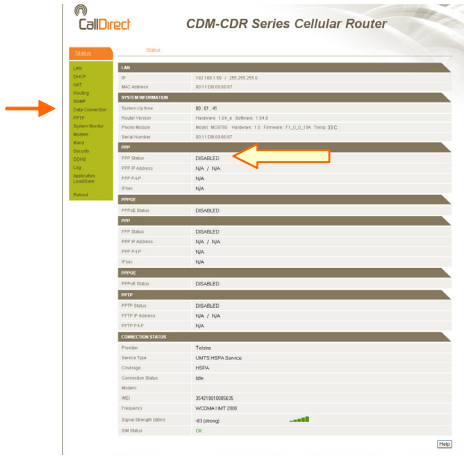

Figure-9: Status page for Data Connection down

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- Figure-10 shows the major area of the Data Connection page. In PPP Profile Connect field, the Auto Connect option is currently Disabled - to make the CDM-CDR Series Router operational you must enable it.
- Select a profile number in the PPP User Configurable Profile Setting section and make sure that the APN field is set appropriately. If it is not set then key in the APN and hit the Modify Entry Button. The username and password is required if this is a VPN profile.
- Select the preferred profile from the PPP User Configurable Profile Setting section and select its Item number in the dropdown list of Profile to connect to.
- Finally, press the Save button and wait until DCD LED becomes solid amber indicating that connection to the network is successful. From now on, Auto Connect will keep Enabled status unless you come back to this page and disable it. Then click the radio button Enable to activate Auto Connect.

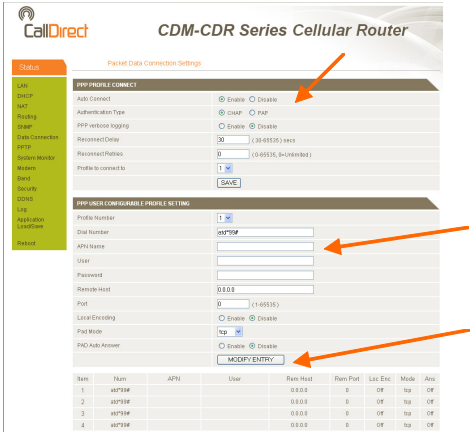

Figure-10: Data Connection screen

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- To confirm the connection, press the Status button near the left top corner of the web page - you should see an updated Status page as per Figure-11. Please pay close attention to PPP field on the page (shown by the red arrow). PPP Status should be UP. PPP IP Address shows the current IP address that the network has allocated for the CDM-CDR Series Router device. Other information is also shown there;

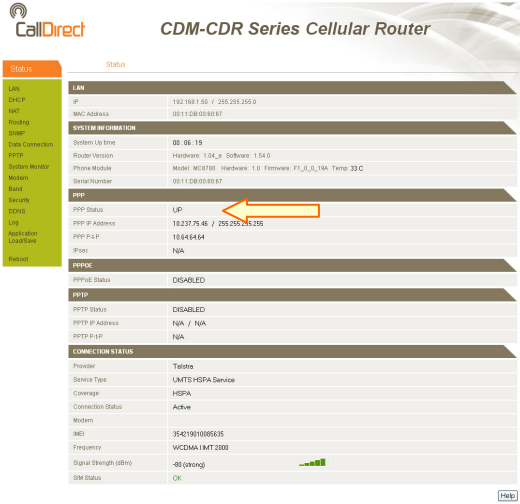

Figure-11: Status page for Data Connection up

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Congratulations - your new CDM-CDR Series Router is now ready to use!

Enjoy your wireless web surf with this fantastic device.
For more detailed information on The configuration and activation of other features of the CDM-CDR Series Router, please visit our Website www.call-direct.com.au and download the document titled:
CDSeriesCellularRouterUsersManual v1.55.pdf

For further assistance in trouble shooting
please contact your accredited vender where the CDM-CDR Series Router was purchased from.

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CDCS (the company) warrants that its product shall be free from defects in materials and workmanship for a period of one year from the date of purchase.
CDCS warrants any software sold alone or with any of its products shall be free of defects (according to the company's specification) for a period of sixty (60) days from the date of shipment.

During the warranty period, if a customer experiences difficulties and is unable to resolve the problem by phone with the Company's Technical Support, the company will issue a Return Materials Authorization (RMA) number. Following the receipt of a RMA number, the customer is responsible for returning the product to the company, accompanied with a dated proof of purchase freight prepaid by customer. Upon verification of the warranty, the company will, at its own discression, repair or replace the product in question, and return it by prepaid freight. This warranty does not cover any work or services at the customer's site.

Any software revision required hereunder cover supply of distribution media only. The warranty does not cover, or include, any installation that may be required.
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