

CDM-CDR Series Cellular Routers

Quick Start Guide

V1.55



CALL DIRECT CELLULAR SOLUTIONS

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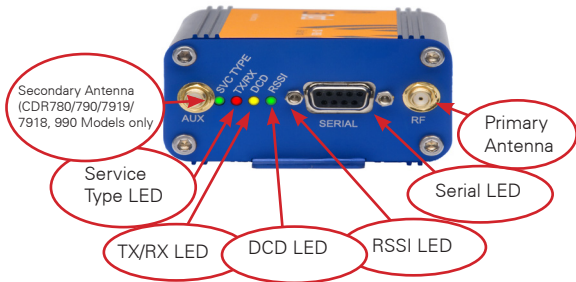
CDM-CDR Series Routers

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)



Service Type – Indicates the network you are on

- solid = 3G
- blink = EDGE
- off = 2G

TX/RX – Indicates the sending and receiving of data 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

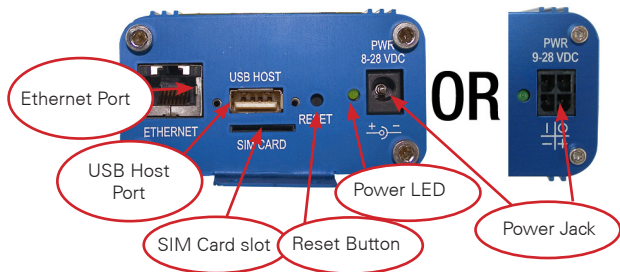


Figure-2 overview of the CDM-CDR series router

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.

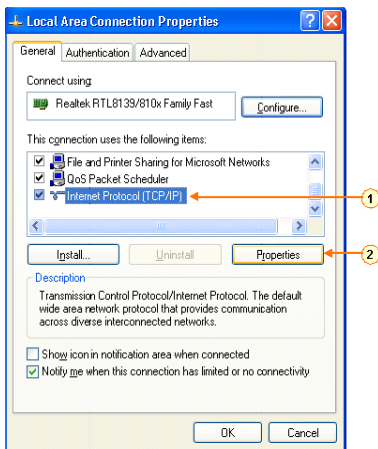


Figure-3: Configuration Window of Local Area Connection

- 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.

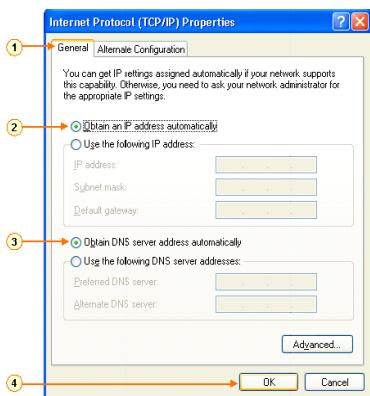
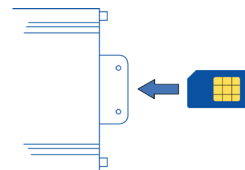


Figure-4: Configuration Window of TCP/IP

Step Two: Inserting SIM card

Inserting the SIM card

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



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.

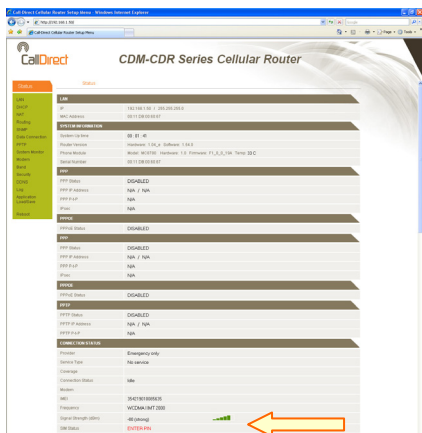


Figure-5: Status page showing ENTER PIN

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

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

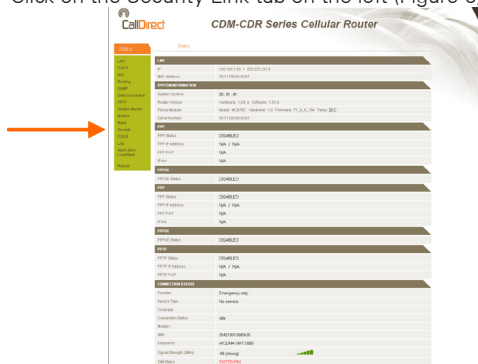


Figure-6: Status page Security Link tab location

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

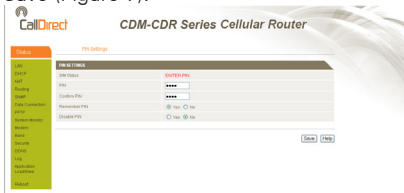


Figure-7: Security page PIN settings

- 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).

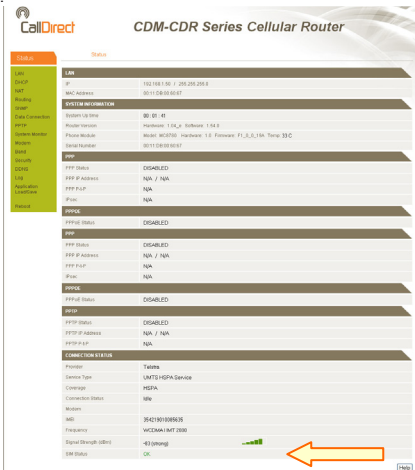


Figure-8: Status page for SIM Status OK.

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:

The screenshot displays the 'Status' page for a CDM-CDR Series Cellular Router. The page is divided into several sections:

- System Information:**
 - System ID: 80-01-00
 - Router Version: Hardware: 1.0A, Software: 1.0A.0
 - Firmware Model: Model: 80120, Hardware: 1.0, Firmware: F1_0_0_0_0_0_0
 - Serial Number: 801108000000
- PPP:**
 - PPP Status: **DISABLED** (indicated by a red arrow)
 - PPP IP Address: N/A / N/A
 - PPP P-IP: N/A
 - Serial: N/A
- PPP2:**
 - PPP2 Status: DISABLED
 - PPP2 Status: DISABLED
 - PPP2 IP Address: N/A / N/A
 - PPP2 P-IP: N/A
 - Serial: N/A
- PPP3:**
 - PPP3 Status: DISABLED
 - PPP3 IP Address: N/A / N/A
 - PPP3 P-IP: N/A
 - Serial: N/A
- CONNECTION STATUS:**
 - Profile: T-Mobile
 - Service Type: LMTS/HSPA Service
 - Coverage: HSPA
 - Connection Status: Idle
 - Modem: 354098188835
 - IPAddress: 192.168.1.100
 - Signal Strength (dBm): -83 (strong)
 - SNR (dB): 0%

Figure-9: Status page for Data Connection down

- 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**.

CallDirect CDM-CDR Series Cellular Router

Packet Data Connection Settings

PPP PROFILE CONNECT

Auto Connect: Enable Disable

Authentication Type: CHAP PAP

PPP verbose logging: Enable Disable

Reconnect Delay: 30 (00-65535) secs

Reconnect Retries: 0 (0-65535, &Unlimited)

Profile to connect to: 1

PPP USER CONFIGURABLE PROFILE SETTING

Profile Number: 1

Dial Number: apn33#

APN Name: []

User: []

Password: []

Remote Host: 0.0.0.0

Port: 0 (1-65535)

Local Encoding: Enable Disable

Pad Mode: tcp

PAD Auto Answer: Enable Disable

MODIFY ENTRY

Item	Num	APN	User	Rem Host	Rem Port	Loc Enc	Mod	Ans
1	apn33#			0.0.0.0	0	Off	tcp	Off
2	apn33#			0.0.0.0	0	Off	tcp	Off
3	apn33#			0.0.0.0	0	Off	tcp	Off
4	apn33#			0.0.0.0	0	Off	tcp	Off

Figure-10: Data Connection screen

- 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;

CallDirect CDM-CDR Series Cellular Router

Status

LAN	
IP	192.168.1.50 / 255.255.255.0
MAC Address	00:11:08:00:80:87

SYSTEM INFORMATION	
System Up Time	00:08:19
Router Version	Hardware: 1.34_x Software: 1.54.0
Phone Module	Model: MC0700 Hardware: 1.0 Firmware: F1_0_0_15A Temp: 33 C
Serial Number	00:11:08:00:80:87

PPP	
PPP Status	UP
PPP IP Address	10.227.75.46 / 255.255.255.255
PPP P-I-P	10.64.64.64
IPnet	N/A

PPPoE	
PPPoE Status	DISABLED

PPTP	
PPTP Status	DISABLED
PPTP IP Address	N/A / N/A
PPTP P-I-P	N/A

CONNECTION STATUS	
Provider	Telstra
Service Type	UMTS-HSPA Service
Coverage	HSPA
Connection Status	Active
Modem	
IMEI	3542190100865635
Frequency	WCDMA F1MT 2100
Signal Strength (dBm)	-85 (strong)
SIM Status	OK

Help

Figure-11: Status page for Data Connection up

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.

Limited Warranty

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 discretion, 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.

Company shall have no obligation to make repairs or to cause replacement required through normal wear and tear necessitated in whole or in part by catastrophe, fault due to extreme temperatures or liquid ingress.

The information, recommendation, description and safety notations in this or other documents supplied by company are based on general industry experience and judgment with respect to such hardware and software.

This information should not be considered to be all-inclusive or covering all contingencies.

In no event will CDCS be responsible to the user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental or consequential damage or loss of equipment, plant or power system, cost of capital, loss of profit.

The above represents the entire obligation of the company and understanding between the parties. There are no other understandings, agreements, representations or warranties, express or implied, including warranties of merchantability or fitness for a particular purpose.

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