NetComm

NetComm NTC-5000 CallDirect Series
HSPA Cellular Routers

Quick Start Guide

Quick Start Guide

Thank you for choosing an industrial HSPA Cellular Router of NetComm's NTC-5000 CallDirect Series.
This guide covers the models **NTC-5908** and **NTC-5909** (collectively referred to in this document as the NTC-5000 series). This guide will provide a series of step by step instructions to ensure the configuration of your Cellular Router goes as smoothly as possible.

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

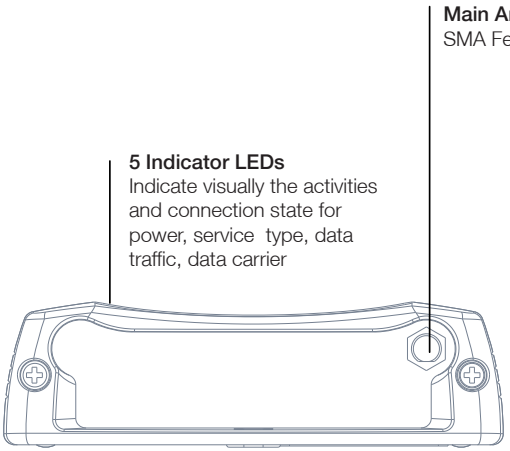
No.	Description
1	NTC-5000 Series HSPA Cellular Router
1	Crossover Ethernet Cable
1	Power Supply Unit
1	Antennas
1	Quick Start Guide

Overview of LEDs

Overview of Indicator Lights

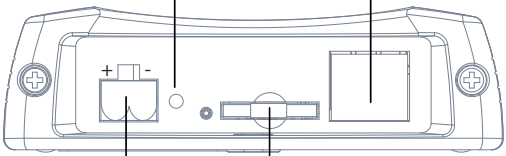
LED	Display	Description
POWER (red)	Solid ON	The red Power LED indicates correct power is applied to the DC power input jack.
Tx /Rx (amber)	Solid ON	The amber LED will light upon data being sent to or received from the cellular network.
DCD (green)	Solid ON	The amber Carrier Detect LED illuminates to indicate a Data connection.
Service Type (green)	The green LED will illuminate when cellular network coverage is detected.	
	Solid ON	3G: indicates UMTS/HSPA available coverage
	Blinking	EDGE: indicates EDGE available coverage
	Off	2G: indicates GSM/GPRS available coverage only.
RSSI (green)	This green LED indicates the Received Signal Strength. There are three possible states that the RSSI LED can operate in, based upon signal level.	
	Solid ON	STRONG - Indicates the RSSI level is -86dBm, or greater
	Flashing once per second	MEDIUM - Indicates the RSSI level is -101dBm and –86dBm, (medium)
	Off	POOR - Indicates the RSSI level is less than -101dBm (poor)

Overview of the Cellular Router Interfaces



Reset Button
Resetting the router to factory default values

Ethernet Port
Connect to a terminal using RJ45 cable or a number of terminals through a hub or network router



SIM Card Reader
For insertion and removal of SIM Card

2-Way Captive Power Terminal Block
Power terminal block and the wide voltage range of 8-28V DC simplify the installation in different industrial environments

Overview of Cellular Router Interfaces

Field	Description
Antenna socket	SMA Female
5 Indicator LEDs	Indicate visually the activities and connection state for power, service type, data traffic, data carrier connection and network signal strength.
2-Way Captive Power Terminal Block	Power terminal block and the wide voltage range of 8-28V DC to simplify the installation in different industrial environments
Reset Button	Resetting the router to factory default values
Ethernet Port	For direct connection to your device or number of devices through a hub or network router.
SIM Card Reader	For insertion and removal of SIM Card

Configuring Your Router

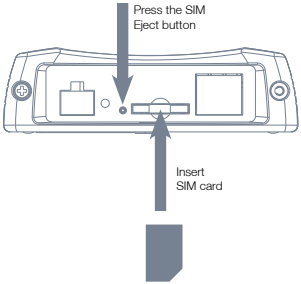
You will need the following hardware components to set up the router:

- Power Supply (8-28VDC)
- Ethernet cable
- Laptop or PC
- Active SIM card

Before you power up the Cellular Router, please insert an active SIM card.

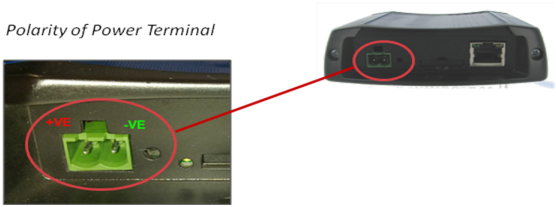
Step One: Inserting the SIM Card

Press the SIM **Eject** button to eject the SIM card tray. Place the SIM card in the tray with the gold side facing up. Insert both into the bay with the gold side facing down and in the direction as shown below.



Step Two: Setting up the Cellular Router

Install the supplied **antennas** to the Cellular Router by screwing them onto the antenna connectors. Connect the **power adapte**r to the mains and **plug** the output into the **power jack** of the router.
The red **Power LED** on the panel should illuminate.



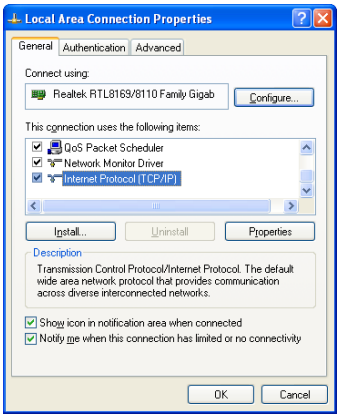
Polarity for MC100#50802 Terminal Block

Step Three: Preparing your Computer

Connect one end of the supplied Ethernet cable to the Ethernet port of your router and connect the other end to the Ethernet port of your PC. The router is configured using a web browser. In order for your PC to connect to the router, configure your PC to obtain an IP address automatically from the router using DHCP. Windows users may use the following procedure.

Configuring your Network Adapter in Windows

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 below:

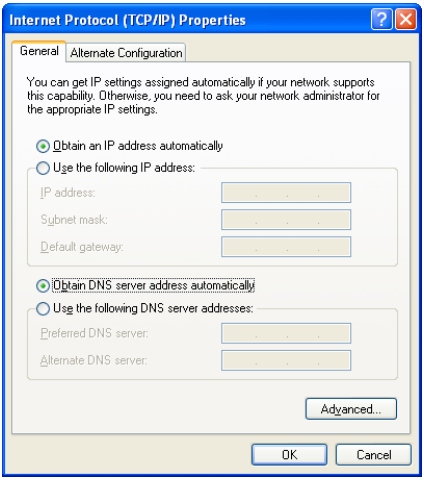


Find and click **Internet Protocol (TCP/IP)** from the protocol list box and then click the **Properties** button The TCP/IP. Configuration window will pop up as illustrated below.

Under General tab, select radio button **Obtain an IP address automatically** and **Obtain DNS server address automatically**.

Then click **OK** button to close TCP/IP configuration window.

Click the **Close** button to complete the computer preparation.



Step Four: Accessing your Router's Configuration Pages

There are two system management accounts for maintaining the system, **root** and **admin**.

Each has slightly different levels of management capabilities.

The admin account allows a lower level of privileges suitable for managing more common router settings excluding firmware upgrades, device configuration backup, restore and reset to factory defaults.

The root manager account has full privileges to change all settings of the router. To login to the Cellular Router in root manager mode, please use the following login details:

http://192.168.1.1	
Username:	root
Password:	admin

To login to the Cellular Router in admin manager mode, please use the following login details:

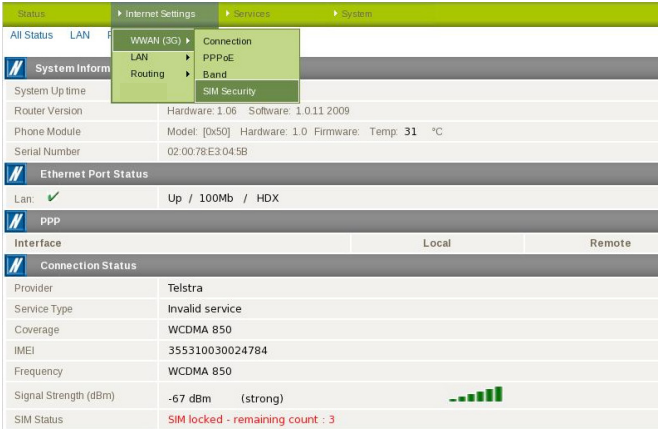
http://192.168.1.1	
Username:	admin
Password:	admin

Step Five: Unlocking the SIM

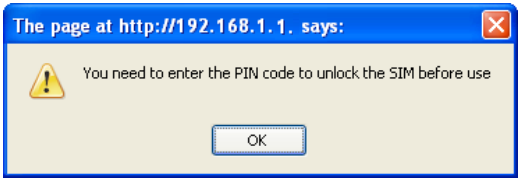
If the SIM card is locked you will need to unlock it with a PIN provided with your SIM card. You can find out if the SIM is locked by viewing the SIM Status on the Home page.

If the SIM Status is ENTER PIN or SIM LOCKED as above then do the following:

Click on the ‘Security’ link.



When you click on the ‘Security’ link you should see the following message.



Click **OK.**

Next, enter the PIN code and confirm the PIN code. Then click Save.

Now Click on the Status link and the Home Status page should look as below with SIM Status OK.

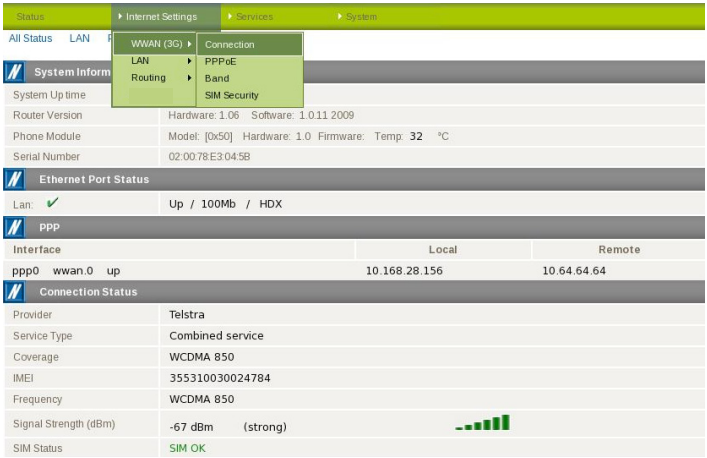
Step Six: Connect to the Cellular Network

This section describes how to set up the Cellular Router to initiate a wireless WAN connection via PPP. There are 2 different ways:

- Initiating the PPP Connection directly from the Cellular Router acting as the PPP Client (most common).
- Initiating the PPP Connection from a different PPP client (i.e. laptop or router) with the Cellular Router running in PPPoE mode. This method is not documented in this quick start guide.

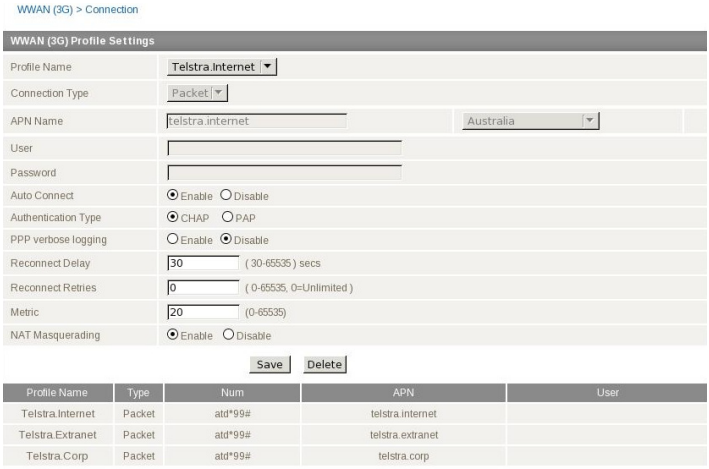
Initiating a PPP Connection from the Cellular Router

Click the **Internet Settings > WWAN (3G)** link on top panel of the status page to open the **Connection** page.



To Connect Using a Connection Profile

The WWAN (3G) profiles allow you to configure the settings that the router will use to connect to the cellular network.



Check the list of pre-configured profile names and select the profile with the APN name that you wish to connect to.

Click **Auto Connect Enable.**

Click **Save.**

Auto Connect will have the router connect automatically unless you come back to this page and disable it.

Click on the Status link to return to the status page. To confirm the success of the connection in the PPP field, the PPP status should be 'up' and the current IP address that the network has allocated should appear.

Congratulations - your new NetComm NTC-5000 CallDirect Series Router is now ready to use!

For more detailed information on the configuration and activation of other features, please visit our website www.netcomm-commercial.com.au and download the user guide.

Notes:

NETCOMM LIMITED Head Office
PO Box 1200, Lane Cove NSW 2066 Australia
P: 02 8205 3888 **F:** 02 9424 2010
E: sales@netcomm.com.au
W: www.netcomm-commercial.com.au

Product Warranty

NetComm products have a standard 12 months warranty from date of purchase.

Technical Support

For firmware updates or if you have any technical difficulties with your product, please refer to the support section of our website.

www.netcomm-commercial.com.au/support