

# Cellular / WAN / Wi-Fi Router

# Quick Start Guide v1.0

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Maestro Wireless Solutions

# QUICK START GUIDE

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## TABLE OF CONTENTS

<b>1. OVERVIEW</b>	<b>3</b>
<b>2. PREREQUISITE</b>	<b>4</b>
<b>3. CHECKING THE PACKAGE CONTENT</b>	<b>5</b>
<b>4. DEFAULT CONFIGURATION</b>	<b>6</b>
4.1 WEB ADMIN PAGE	6
4.2 WI-FI ENABLED, WITH WPA/WPA2 TKIP KEY	6
4.3 CONNECTION	6
<b>5. UNDERSTANDING THE MAESTRO ROUTER</b>	<b>7</b>
5.1 LAN PANEL DETAILS	7
5.2 WAN PANEL DETAILS	8
5.3 FRONT PANEL DETAILS	9
<b>6. CONNECTING MAESTRO ROUTER</b>	<b>11</b>

## 1. Overview

With high-speed cellular (3G and beyond), WAN, LAN and Wi-Fi connectivity, the Maestro's E200 series of router are highly versatile, reliable and rugged router designed for mission-critical enterprise applications requiring faultless connectivity. The Maestro E200 series includes three models.



### **E205XT02**

It is a High-Speed Downlink Packet Access (HSDPA) router operating on bands 900/2100MHz

### **E205XT04**

It is a High-Speed Downlink Packet Access (HSDPA) router operating on bands 800/850/2100MHz

### **E206XT**

It is a dual-mode router, supporting High Speed Packet Access (HSPA) on bands 800/850/1900/2100Mhz and Evolution-Data Optimized (EV-DO) as well as CDMA.

## 2. Prerequisite

Before continuing with the installation of your E200 Series router, make sure you have a computer equipped with the following:

- » Computer with an Ethernet port or Wi-Fi connectivity and Internet service
- » Active SIM card
- » Web browser such as Internet Explorer 7+ or Google Chrome, Mozilla Firefox 1.5+ or Apple Safari to access the Maestro Web Admin Console
- » HCP enabled in the computer. To enable the DHCP, go to Start > **Control Panel** > **Network and Sharing Centre** > Click the existing **Connection** > **Network Connection Status** dialog box appears > click **Properties** > Double click Internet **Protocol Version 4 (TCP/IPv4)** > **Internet Protocol Version 4 (TCP/IPv4) Properties** dialog box appears > Under tab **General**, select following options:
  - a. Obtain an IP address automatically
  - b. Obtain DNS server address automatically

### 3. Checking the Package Content

Check the Package contents. Check that the package contents are complete.

- » One Maestro Router
- » One AC Power connector cable – 4 pin connector for power supply and digital input/output
- » One cross through Ethernet Cable
- » Wi-Fi Antenna
- » Diversity/GPS Antenna
- » Cellular Antenna
- » Quick Start Guide

***Note***

***All the components are exclusive of the Maestro Router and must be purchased.***

If any component(s) from the package are missing, please contact Maestro Support at [support@maestro-wireless.com](mailto:support@maestro-wireless.com).

## 4. Default Configuration

### 4.1 Web Admin Page

Parameters	Details
IP Address (LAN)	192.168.1.1
Username	admin
Password	admin

**Note**

***Username and Password are case sensitive.***

### 4.2 Wi-Fi enabled, with WPA/WPA2 TKIP key

Parameter	Details
SSID	Maestro E200
WPA Key	W1rele\$\$

**Note**

***Username and Password are case sensitive.***

### 4.3 Connection

- » WAN Connection – Automatic (DHCP - Automatic IP Address lookup)
- » Active DHCP with starting IP Address: 192.168.1.100 with pool of 100 clients.

- » WAN as automatic IP, with Cellular backup
- » Cellular default APN is "internet"

## 5. Understanding the Maestro Router

### 5.1 LAN Panel Details

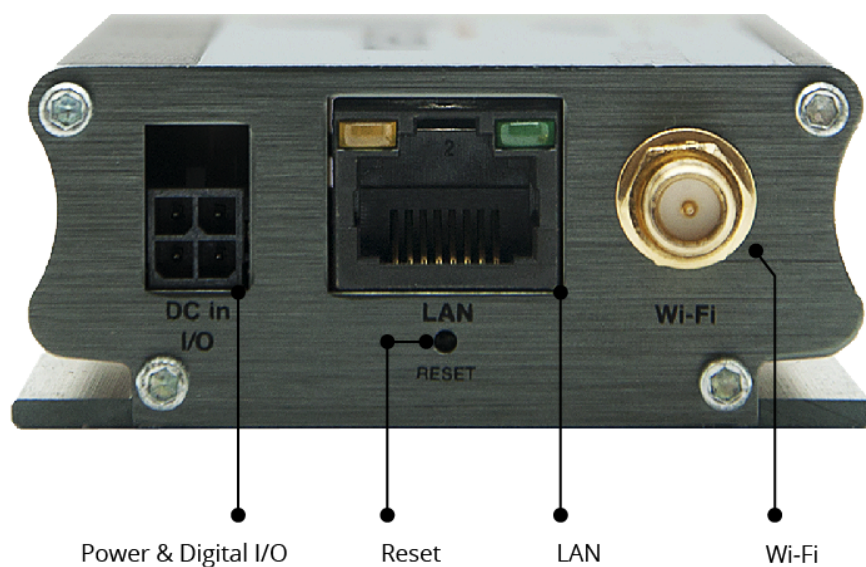


Figure - Maestro Router LAN Panel

- » Power Supply – 4 pin Micro-fit Molex connector (Power and input/output)
- » Ethernet port (LAN) – Cross Ethernet cable connects to LAN.
- » Reset Button – Push the reset button for 3 seconds and device will be reset to default settings.

**Note**

***Use a paper clip to push the reset button gently.***

- » Wi-Fi Connector – RP-SMA antenna connector

## 5.2 WAN Panel Details

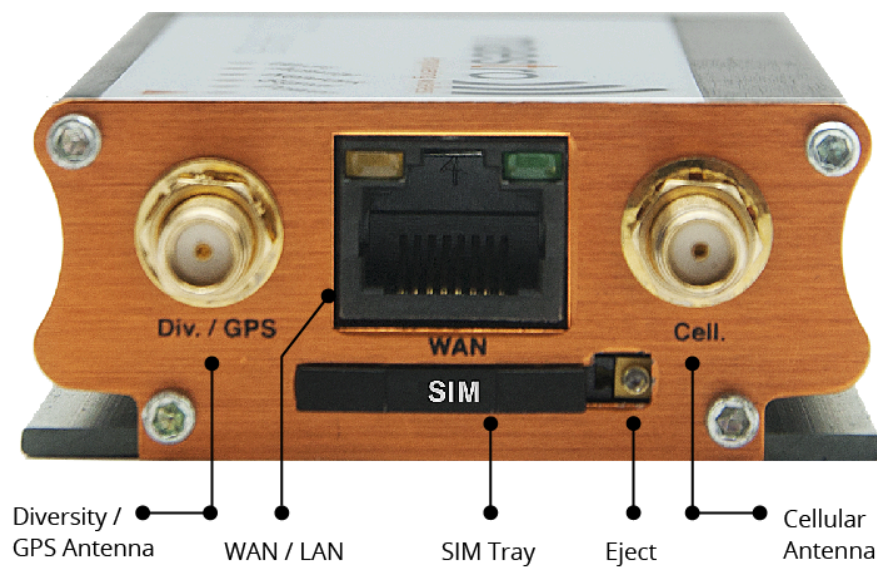


Figure – Maestro Router WAN Panel

- » GPS / diversity SMA Antenna Connector
- » Ethernet port (WAN)
- » SIM Card holder
- » Eject Button
- » Cellular SMA Antenna Connector




### 5.3 Front Panel Details



Figure – Front Pan

The top panel of Maestro E200 Series Routers features 6 LEDs on the front to indicate critical system information.

Name	Colour and State	Description
Wi-Fi	OFF	Wi-Fi network is inactive
	Blue Flashing	Wi-Fi network connection traffic
	Blue ON	Wi-Fi network is up and activate
Activity	OFF	Cellular data service is not connected
	Amber ON	Cellular data service is connected
Network	OFF	SIM card is not inserted, or Device is not registered on the cellular network
	Amber Flashing	Device is registered on the cellular home network
	Amber ON	Device is registered on the cellular roaming network
Signal	OFF	No signal (CSQ=0,99)
	Amber ON	Weak signal (CSQ<7)
	Amber Flashing	Strong signal (CSQ>7)
Power	OFF	Power off
	Green ON	Power on
Alert 	OFF	No alert, device is running smoothly
	Red Flashing	Software fault (crash, issues...)
	Red ON	Hardware fault (high temperature, problem with module or SIM card)

**Table - LED States and Description**

## 6. Connecting Maestro Router

**Step1.** Press the end of the paper clip into the eject button next to SIM Tray. Press firmly and push the end of paper clip straight in until the SIM tray pops out.

### **Note**

**DO NOT pull out the SIM tray without pushing the eject button.**

**Step2.** Pull out the SIM holder and place the SIM card in it, following the shape of the tray.

### **Note**

**Make sure it fits perfectly and the golden circuit side of the SIM is faced upwards.**

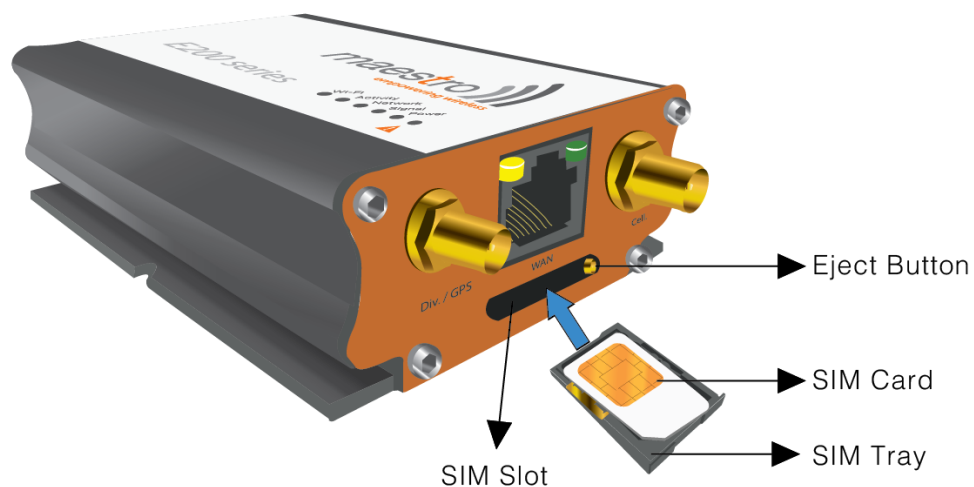


Figure - Installing SIM Card in Maestro Router

**Step3.** Carefully push the SIM tray containing the SIM card back into the Maestro Router.

**Step4.** Connect GSM antenna with “Cell” connector on the Maestro Router. Make sure the antenna is tightly secured.

**Step5.** Connect GPS antenna with “Div/GPS” connector.

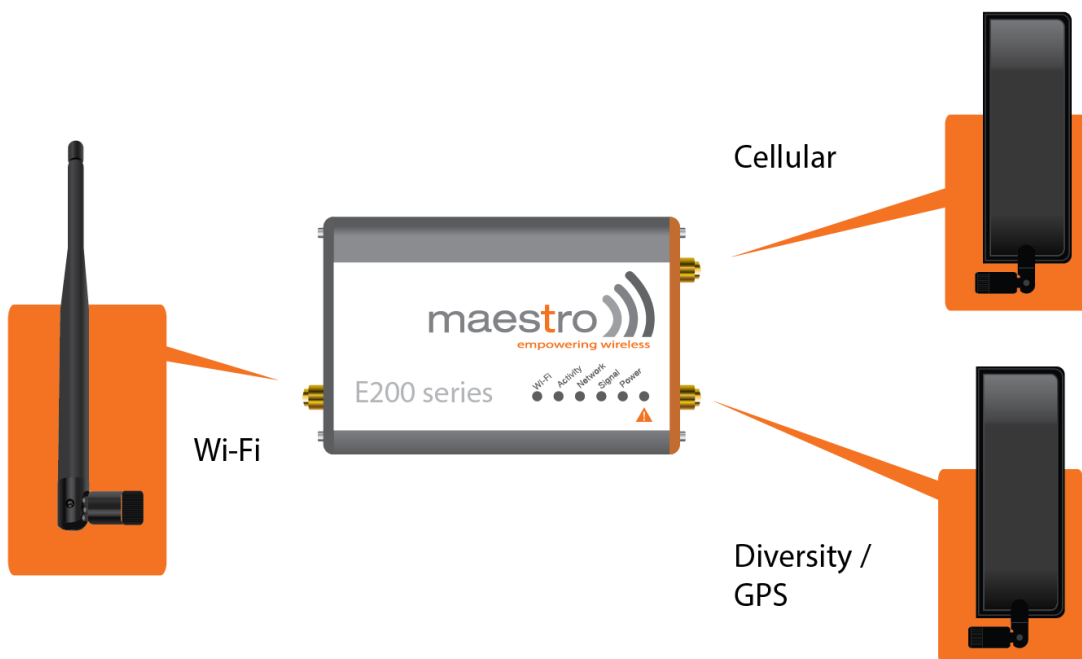


Figure - Connecting GSM antenna & Cell connector on Maestro Router

**Note**

*We strongly recommend connecting the GPS antenna with “Div/GPS” connector, if the Maestro Router package content includes it. A dual antenna provides diversification that is improved signal strength and thus better performance.*

*For certain circumstances/environments may require a higher quality of antenna or one mounted in a different location. In this case, Maestro has many antenna options to choose from, please contact Maestro Support at [support@maestro-wireless.com](mailto:support@maestro-wireless.com).*

**Step6.** Use standard Ethernet cable to connect the existing WAN access to WAN port of Maestro Router.

**Step7.** Use standard Ethernet cable to connect “LAN” port with the LAN port of the computer.

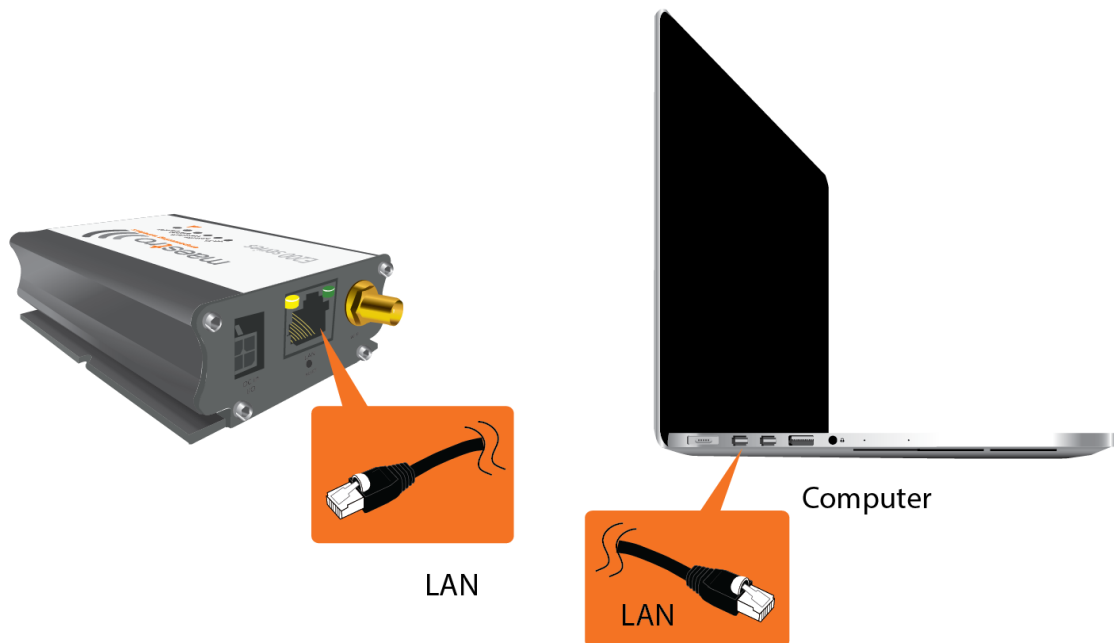
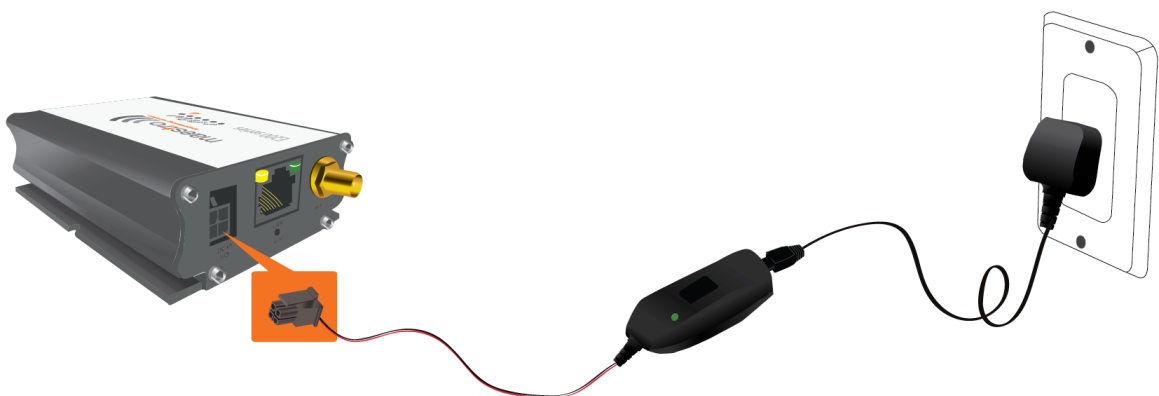


Figure – Connecting Ethernet cable on Maestro Router & computer

**Step8.** Connect the AC power connector into the “DC in” jack on LAN-side panel of the Maestro Router. Plug the other side of the cord to a standard AC receptacle and turn the power switch ON. The power LED will light when power is applied.



**Figure - Connecting Ethernet cable on Maestro Router & computer**

**Step9.** Open a Web browser on the computer, and enter the LAN IP Address <http://192.168.1.1> of Maestro Router in browser’s URL box. A dialog box appears prompting to enter Username and Password.

**Note**

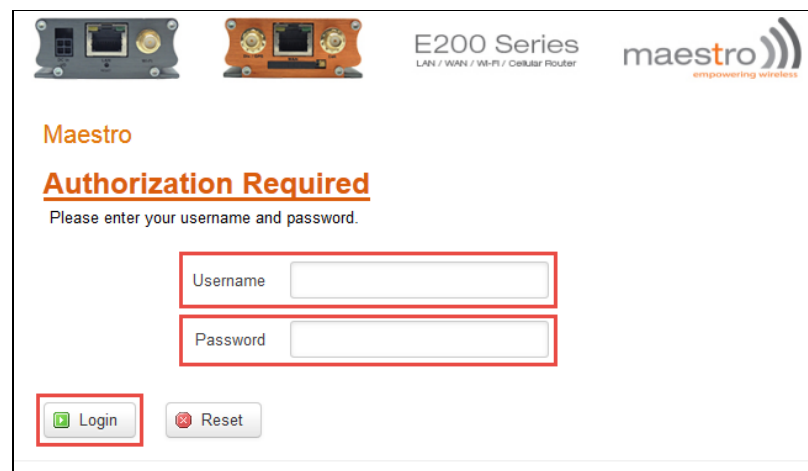
***The default LAN IP Address of Maestro Router is 192.168.1.1***

***DHCP must be enabled on the computer to access Maestro Router with LAN IP Address 192.168.1.1***

**Step10.** Enter the Username admin, and the Password admin in the login window. Click Login.

**Note**

***We strongly recommend you to change your login password.***



Maestro

**Authorization Required**

Please enter your username and password.

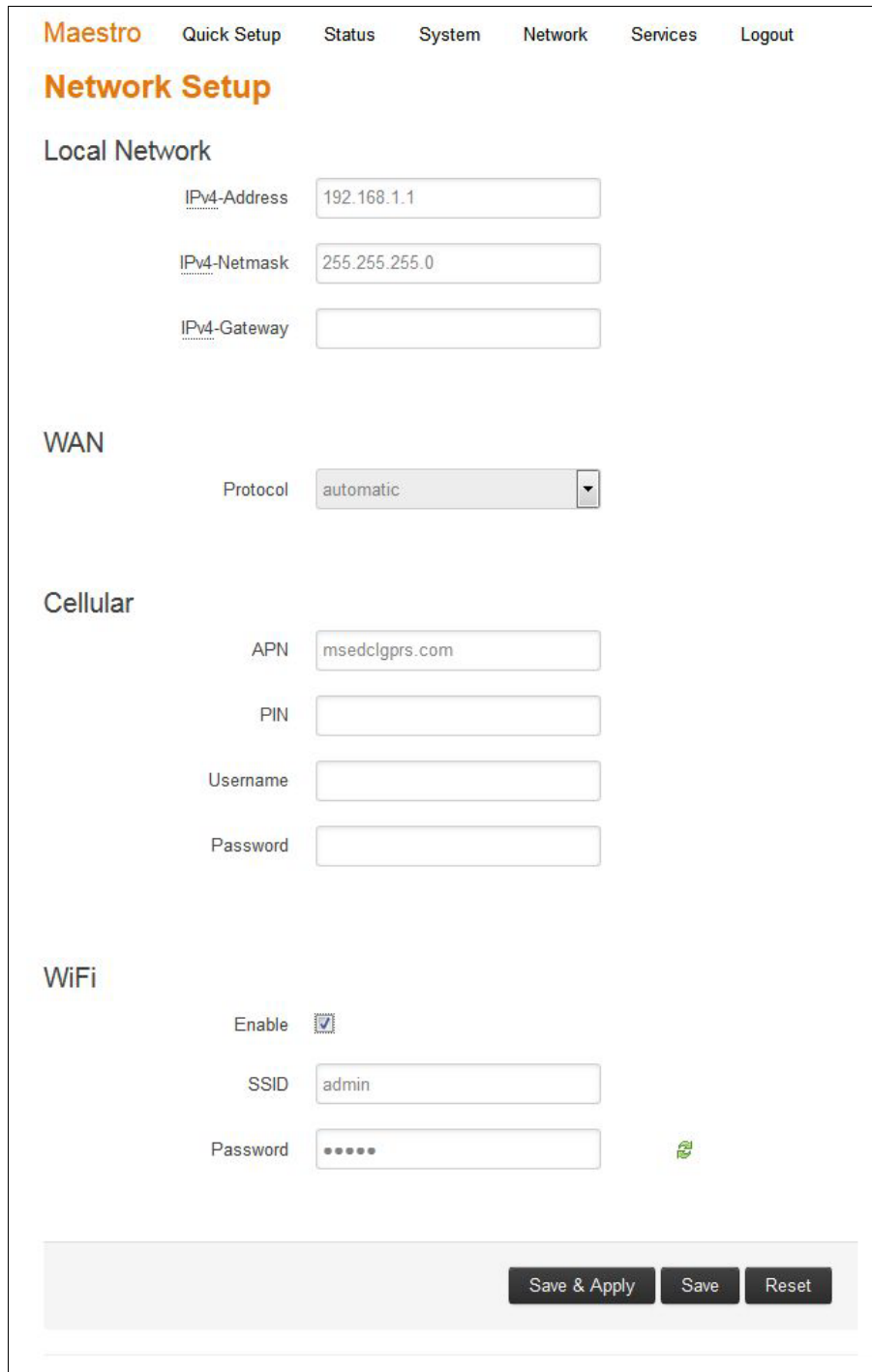
Username

Password

**Screen - Login Page**

**Step11.** Click **Next** on the Quick Setup Page. Configure the network parameters for LAN, WAN, Cellular and Wi-Fi.

Alternately, go to Management Settings, import and load predefined settings file. Click Save & Apply to set the configuration.



The screenshot shows the 'Network Setup' page in the Maestro web interface. At the top, there is a navigation bar with 'Maestro' and links for 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. The main heading is 'Network Setup'. Below this, there are four sections: 'Local Network', 'WAN', 'Cellular', and 'WiFi'. Each section contains input fields for configuration. At the bottom right, there are three buttons: 'Save & Apply', 'Save', and 'Reset'.

Section	Field	Value
Local Network	IPv4-Address	192.168.1.1
	IPv4-Netmask	255.255.255.0
	IPv4-Gateway	
WAN	Protocol	automatic
Cellular	APN	msedclgprs.com
	PIN	
	Username	
	Password	
WiFi	Enable	<input checked="" type="checkbox"/>
	SSID	admin
	Password	•••••

Screen - Quick Start Network Configuration Page



Screen Element	Description
Local Network	
IPv4-Address	Enter IPv4 Address of LAN interface. The default IPv4 Address is 192.168.1.1
IPv4-Netmask	Enter IPv4 Subnet Mask of LAN interface.  The default Netmask is 255.255.255.0
IPv4-Gateway	Enter the Gateway IPv4 of the Gateway.
WAN	
Protocol	Select the WAN protocol from the available options:  Available Options Manual Automatic PPPoE  The default WAN protocol is selected as Automatic.
Cellular	
APN	Access Point Name (APN) is the name (Web address) of an access point for GPRS/EDGE/UMTS data connection. Generally, wireless cellular network operator provides the APN to their end users.  Enter the APN provided by the cellular network operator.
PIN	SIM card Personal Identification Number (PIN) is used to lock the card, preventing people from making unauthorized phone call or access cellular data.  Enter the PIN of the SIM card.
Username	Enter the login name.
Password	Enter the password.

Wi-Fi	
Enable	By default, Wi-Fi interface is enabled every time the Maestro Router reboots. Click and disable the Wi-Fi interface if you do not want to use them.
SSID	Service Set Identifier (SSID) is a sequence of characters, which uniquely names a wireless local area network (WLAN).  The default SSID is Maestro E200.
Password	The default password is W1rele\$\$.

Table – Quick Start Network Configuration Page

**Congratulations!!!**

This finishes the basic configuration of Maestro Router and you are ready to use the Router.