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QUICK START GUIDE

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1. Overview

With LTE, WAN, LAN and Wi-Fi connectivity, Maestro's E228 VZ router are highly versatile, reliable and rugged router designed for mission-critical enterprise applications requiring faultless connectivity.



E228 VZIt is a High-Speed Verizon Wireless LTE router



2. Prerequisite

Before continuing with the installation of your E220 Series router, make sure you have a computer equipped with the following:

- Computer with an Ethernet port or Wi-Fi connectivity and Internet service
- M Active SIM card
- Meb browser such as Internet Explorer 7+ or Google Chrome, Mozilla Firefox 1.5+ or Apple Safari to access the Maestro Web Admin Console
- MCP 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 E228 VZ Router
- none AC Power connector cable 2-pin connector for power supply
- M One cross Ethernet Cable
- Wi-Fi antennas
- Diversity Antenna
-)) Cellular Antenna
-)) Quick Start Guide

<u>Note</u>

All the components are exclusive to 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.



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
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 100 111 clients.
- WAN as automatic IP, with Cellular backup
- Cellular default APN is "internet"



5. Understanding the Maestro Router

5.1 LAN Panel Details

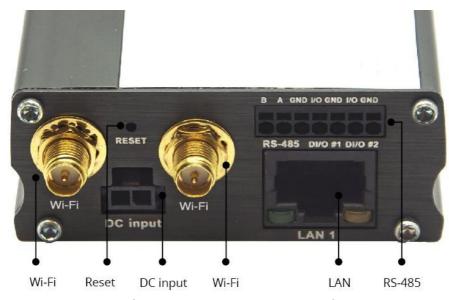


Figure - Maestro Router LAN Panel

- n Power Supply 2-pin Micro-fit 3.0 connector
- Ethernet port (LAN) Ethernet cable connects to LAN.
- Reset Button Push the reset button for 3 seconds and the device will be reset to default settings.
- Wi-Fi Connector RP-SMA antenna connector



5.2 WAN Panel Details



Figure - Maestro Router WAN Panel

- *((c* Diversity SMA Antenna Connector
- Ethernet port (WAN), switchable to LAN *((c*
- SIM Card holder *((c*
- Cellular SMA Antenna Connector 111



5.3 Front Panel Details



Figure - Front Pan

The top panel of Maestro's E228 VZ features 6 LEDs on the front to indicate critical system information.



Name	Colour and State	Description
	OFF	Wi-Fi network is inactive
WI-FI	Blue Flashing	Wi-Fi network connection traffic
	Blue ON	Wi-Fi network is up and activate
Activity	OFF	Cellular data service is not connected
Activity	Amber ON	Cellular data service is connected
Naturali	OFF	SIM card is not inserted, or Device is not registered on the cellular network
Network	Amber Flashing	Device is registered on the cellular home network
	Amber ON	Device is registered on the cellular roaming network
	OFF	No signal (CSQ=0,99)
Signal	Amber ON	Weak signal (CSQ<7)
	Amber Flashing	Strong signal (CSQ>7)
Davis	OFF	Power off
Power	Green ON	Power on
	OFF	No alert, device is running smoothly
Alert 🛕	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. Insert the SIM card in your router as show below.



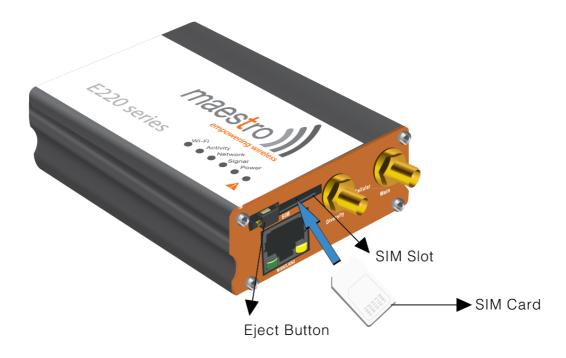


Figure - Installing SIM Card in Maestro Router

Step2. Connect WWAN antenna with "Main" connector on the E228 VZ. Make sure the antenna is tightly secured.

Step3. Connect diversity antenna with "Diversity" connector.



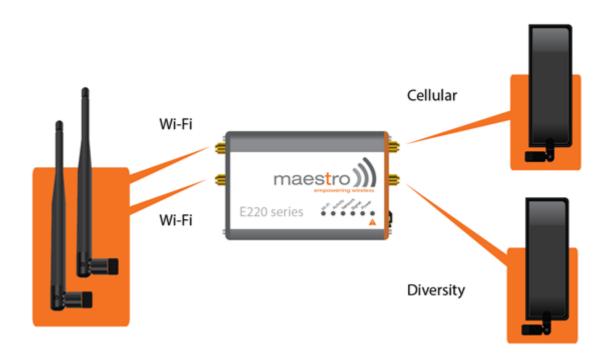


Figure - Connecting WWAN antenna & Cell connector on Maestro Router

Note

We strongly recommend connecting the diversity antenna with "Diversity" 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.



Step4. Use cross Ethernet cable to connect "LAN" port with the LAN port of the computer.

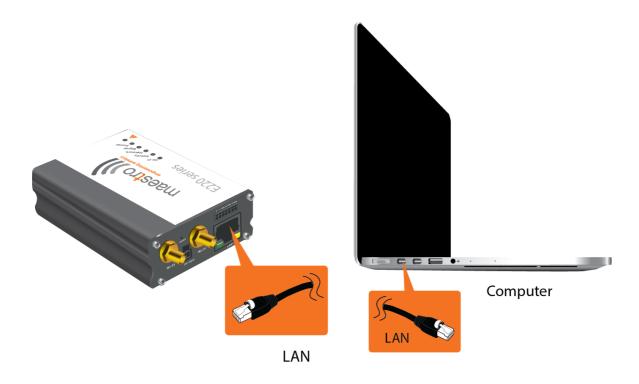


Figure – Connecting Ethernet cable on Maestro Router & computer

Step5. 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



Step6. 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.

<u>Note</u>

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

Step7. Enter the Username **admin**, and the Password **admin** in the login window. Click Login.

Note

We strongly recommend you to change your login password.

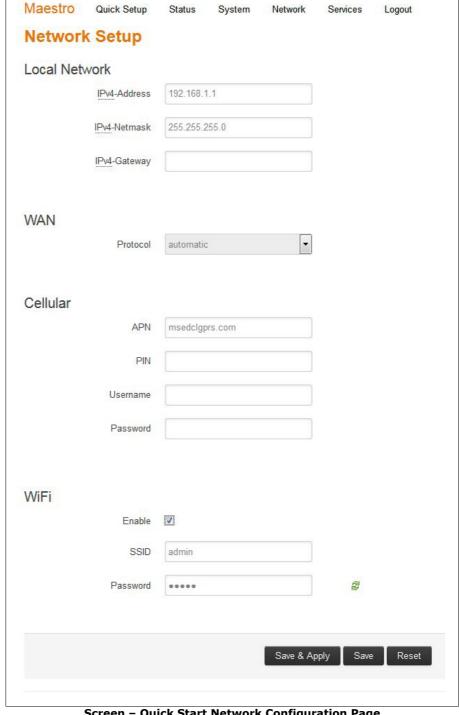


Screen - Login Page



Step8. 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.



Screen - Quick Start Network Configuration Page



C	D : 1:	
Screen Element	Description	
Local Network	T	
	Enter IPv4 Address of LAN	
IPv4-Address	interface.	
	The default IPv4 Address is	
	192.168.1.1	
	Enter IPv4 Subnet Mask of	
IPv4-Netmask	LAN interface.	
1FV4-Netillask	The default Netmask is	
	255.255.255.0	
	Enter the Gateway IPv4 of	
IPv4-Gateway	the Gateway.	
WAN	the duteway.	
VVAIN	Select the WAN protocol	
	from the available options:	
	Available Options	
Duotogo	Manual	
Protocol	Automatic	
	PPPoE	
	The default WAN protocol is	
	selected as Automatic.	
Cellular		
	Access Point Name (APN) is	
	the name (Web address) of	
	an access point for LTE data	
	connection. Generally, wireless cellular network	
APN	operator provides the APN to	
AT IN	their end users.	
	dien end users.	
	Enter the APN provided by	
	the cellular network	
	operator.	
	SIM card Personal	
	Identification Number (PIN)	
	is used to lock the card,	
	preventing people from	
PIN	making unauthorized phone	
	call or access cellular data.	
	Fotos the DIN CIL CINA	
	Enter the PIN of the SIM	
Haarnama	card.	
Username	Enter the login name.	
Password Wi-Fi	Enter the password.	
Enable	By default, Wi-Fi interface is enabled every time the	
	enabled every tillle tile	



	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.
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.



7. Conformity

Federal Communications Commission (FCC) Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital , pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Information

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.