

Configuring Anritsu Handheld Instruments for Wireless Remote Control

This application note details the use of the ZyXEL MWR102 Travel Router to set up a wireless connection to many models of Anritsu RF handheld instruments. The MWR102 is a small Wi-Fi router (162 mm x 115 mm x 33 mm) weighing about 250 g. Its small size makes it ideal for enabling remote control of your test equipment from the bottom of a cellular tower.

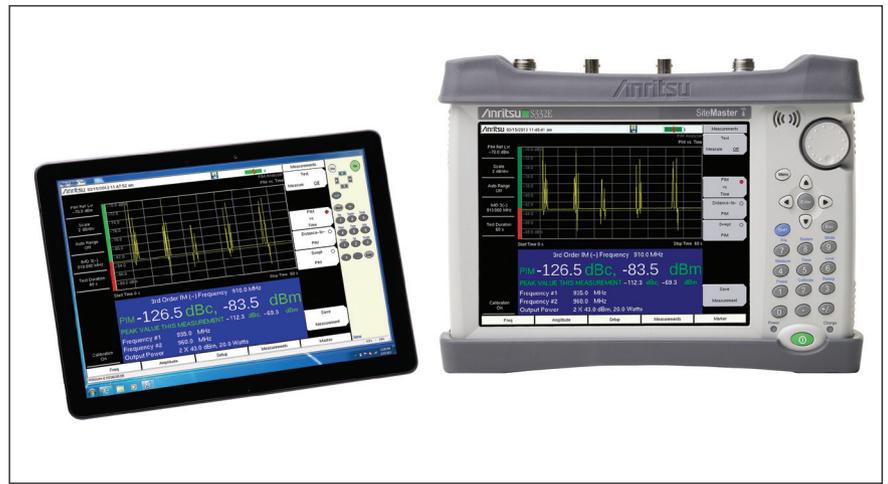


Figure 1. The Site Master with wireless remote control via a Windows tablet.

Download and install the Wireless Remote Tools software

Download and install the free “Wireless Remote Tools” from the Anritsu website onto a laptop or tablet computer running Windows XP, Vista, Windows 7, or Windows 8 operating system. You can download the “Wireless Remote Tools” at: <http://www.anritsu.com/en-US/Products-Solutions/Products/WRT.aspx>.

Purchase ZyXEL MWR102 Travel Router

The ZyXEL MWR102 Travel Router can be purchased at many online retail outlets. All you need to wirelessly connect to your analyzer is included with the router. This includes both an Ethernet cable and a USB cable (for powering the MWR102) as well as instructions for its use.

The MWR102 comes pre-programmed with a password for accessing the device. This password can be found on a sticker placed on the reverse side of the router. Write down the password and SSID for this router. You will need this information to access your MWR102.



Figure 2. The ZyXEL Pocket Router



Figure 3. The Pocket Router configuration information.

Which Anritsu RF Instruments work with the Wireless Remote Tools?

The current compatible instrument list is maintained on the Wireless Remote Tools web page, at this URL: <http://www.anritsu.com/en-us/Products-Solutions/Instructional/Wireless-Remote-Tools.aspx>

Connect the Router to your Anritsu RF Handheld Instrument

The router has two Ethernet ports. One is marked 'LAN' (colored black) and the other is marked 'WAN' (colored blue). Insert the provided Ethernet cable into the black LAN port on the router and insert the other end into the Ethernet port of your test instrument.

Insert the Mini-B (small) end of the provided USB cable into the router and the Type-A (larger) end of the cable into one of the USB ports of your test instrument.

Secure the router to the Site Master chassis using a small strip of Velcro or other hook and loop fastener.

Use your Computer's Wi-Fi Configuration Utility

Use your computer's Wi-Fi, or Wireless, Network Connection utility to find the ZyXEL router. The SSID name will be ZyXEL, followed by several other numbers and characters unique to your particular router. Connect to this SSID. When prompted, enter the password for the router, as shown on the back of the router.

Configuring the Anritsu RF Handheld Instrument

Set the IP address manually on the Anritsu RF Handheld Instrument:

- Press <shift> System on the keypad
- Press System Options → Ethernet Config on the softkeys.

This brings up the Ethernet Editor screen as shown below. Complete the entries for the IP, Gateway and Subnet addresses as shown and press ENTER.

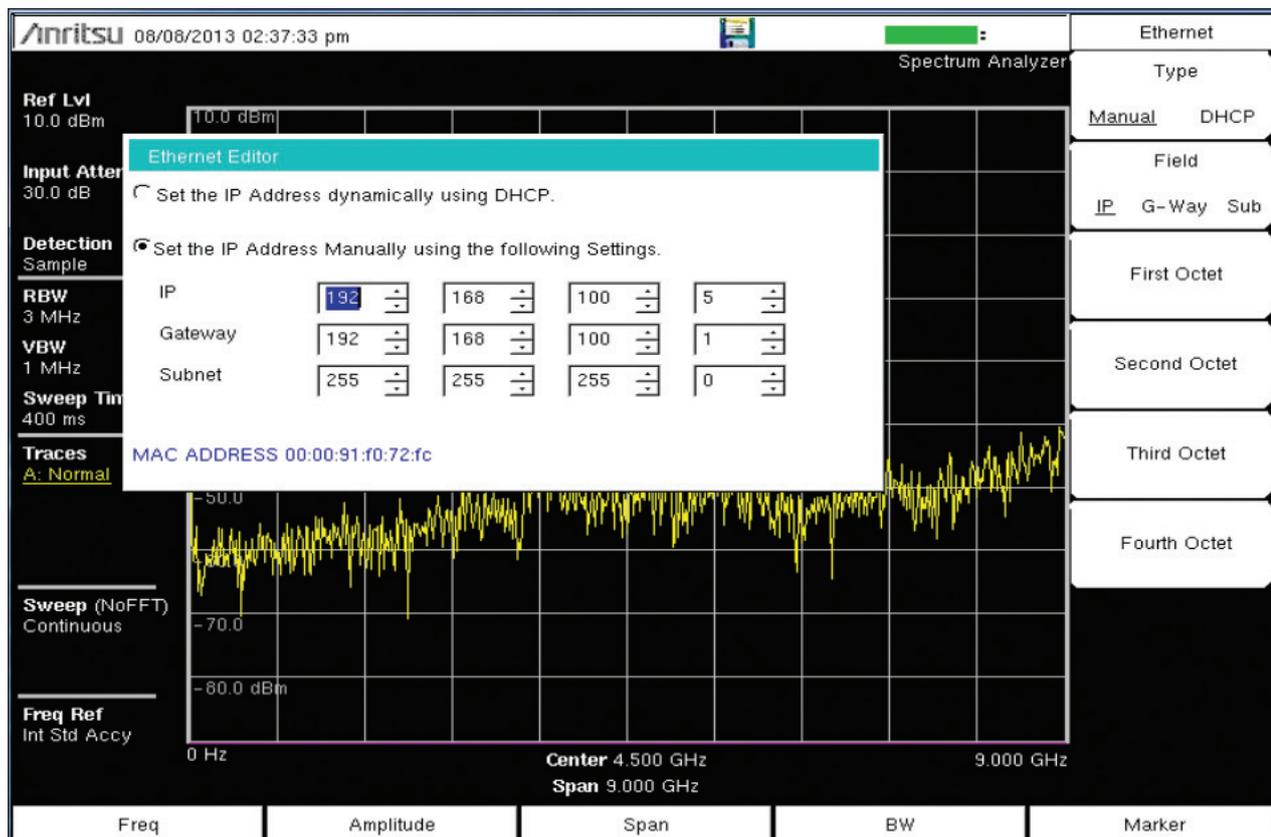


Figure 4. Setting the IP address on the Spectrum Master.

Launch the Wireless Access Tools Application

Double click on the Wireless Remote Access Tool application icon on your desktop. The following dialog box will open. Enter the IP address that was manually set on your Anritsu handheld RF instrument and select the desired screen refresh rate. Select OK.

You should now see a replica of the instrument screen on your remote computer and be able to fully control the instrument.

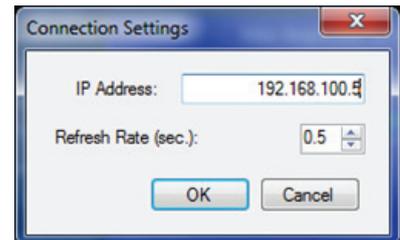


Figure 5. Setting the IP address on the Wireless Remote Tools software.

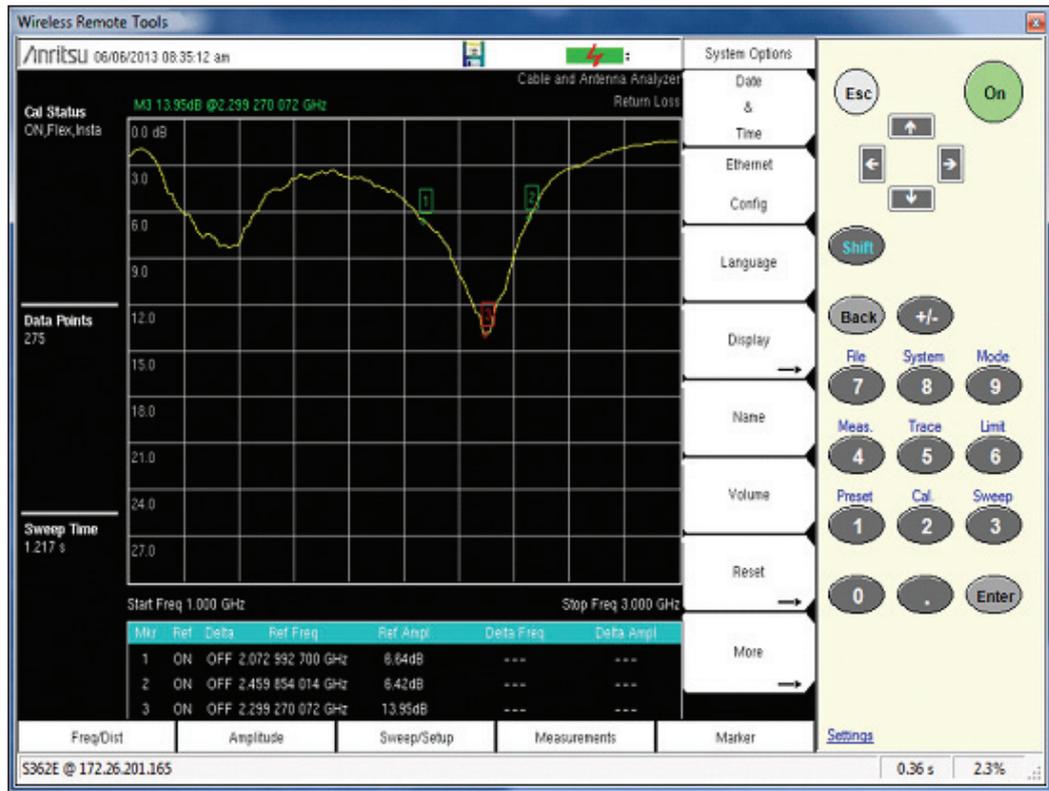


Figure 6. Wireless Remote Tools working.

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