

Web Radio Quick Start Guide

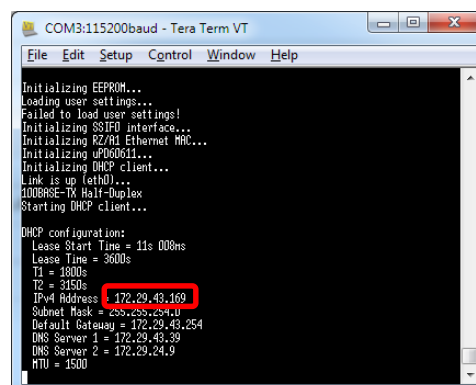
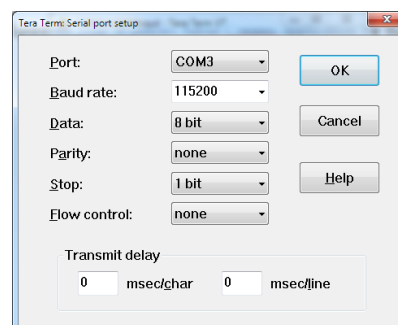
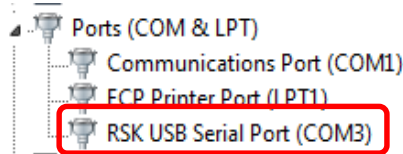
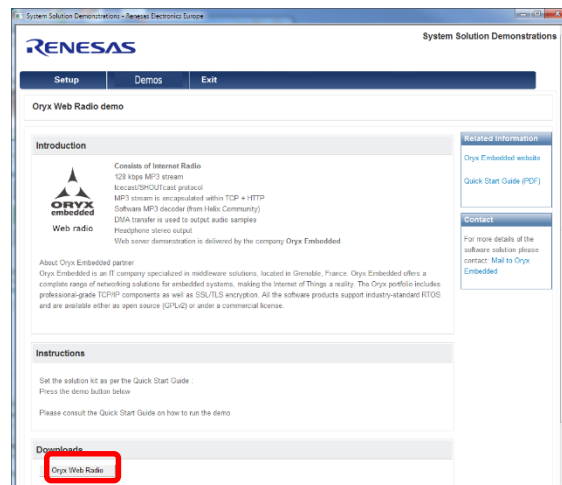
The Stream it! kit will now be configured to run the Oryx Web Radio demo.

1. Please configure the hardware as described in the set-up page in the GUI and then press the “Oryx Web Radio” button as indicated:

SEGGER J-Link V4.98 - Flash download (768 KB)

Compare	100.0%	0.000s
Erase	66.6%	0.899s
Program	0.0%	
Verify	0.0%	
Erasing range 0x18100000 - 0x1813FFFF (1 sector, 256 KB)		
		0.899s

2. The Demo application will now be loaded into the SPI flash on the Stream it! board.
3. Open a suitable Windows serial communication application: TeraTerm (please see the installer software\Setup_teraterm-4.86.exe on the CD).
4. When the Stream it! board powers up it will enumerate as a new serial port, “RSK USB Port”. Please check the exact com port in the Windows device manager as below. In this case COM3.
 - a. Note: If this is the first time you are using Renesas RSK USB port, you will need to select the driver from the CD (RSK USB Port driver) when asked.
5. Configure the Windows serial communication application for the com port as above at 115200 baud as below.
6. Press the reset button on the board to restart the application. The Stream it! board will send a sign on message to the serial port and attempt a DHCP connection to the Ethernet network.
7. The Stream it! kit will attempt to make a DHCP connection to the network for up to 15 seconds. If the DHCP connection completes correctly, an IPv4 IP address will be reported (see below). Please make a note of this address. In this case, 172.29.43.169 but this will be different in your configuration.
8. If the DHCP connection fails, a fixed IP address will need to be established. Please check the “Fixed IP Appendix” below.
9. Open your Web browser and enter the IP address
 - a. For DHCP see step 7 or 192.168.0.161 for fixed IP (step 15).
10. The Web Radio server should now be displayed.



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- Select an Internet Radio channel from ice-sov.musicradio.com, for example for Capital London, enter “ice-sov.musicradio.com/CapitalMP3” in the field indicated below or define the IP address of the stream IP (mandatory for fixed IP configuration).

CycloneTCP Web Radio

Icecast Settings

URL: ice-sov.musicradio.com/CapitalMP3

Icecast Server Port: 80

LAN Settings

MAC Address: 00-AB-CD-EF-00-A1

Host Name: WebRadio

DHCP Client: ☒ On

IPv4 Address: 192.168.0.161

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.254

Primary DNS: 8.8.8.8

Secondary DNS: 8.8.4.4

- Note:
You may need to enter your company proxy settings at the bottom of the page. These are company specific and will need to be checked by your IT admin.

Proxy Settings

Proxy: ☒ On

Proxy Server Name: 192.168.0.1

Proxy Server Port: 8080

- If you wish to listen to a local network stream please define the stream IP details by setting the streaming PC IP address in the URL entry (in the example the streaming machine was at 192.168.0.7). Type 192.168.0.7/stream.mp3 in the URL entry and 8000 for the Icecast Port Server.

CycloneTCP

Icecast Settings

URL: 192.168.0.7/stream.mp3

Icecast Server Port: 8000

LAN Settings

MAC Address: 00-AB-CD-EF-00-A1

Host Name: WebRadio

- Finally, save the configuration, and restart the Stream it!

Cancel Save

- You should now be able to connect a set of headphones to CN8 (Audio out) and enjoy web radio. You may need to alter the speaker volume by adjusting the potentiometer on the side of the board.

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Fixed IP Appendix

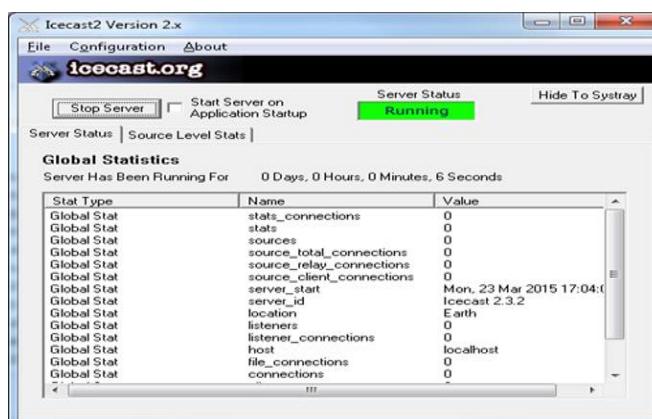
If your network does not support DHCP you will need to follow the procedure below:

16. Fixed IP procedure
 - a. Disconnect your PC from the network
 - b. Make a direct Ethernet connection between your PC and the Stream it! board
 - c. Power up the Stream it! board and wait 15 seconds. A fixed IP address will be allocated as follows
 - i. IPv4 Address = 192.168.0.161
 - ii. Subnet Mask = 255.255.255.0
 - iii. Default Gateway = 192.168.0.254
 - iv. DNS Server 1 = 8.8.8.8
 - v. DNS Server 2 = 8.8.4.4 of 192.168.0.161
 - vi. For setting your PC see “Fixed IP appendix” in STREAM IT Video QSG pdf file.

Local streaming Appendix

Use this to start streaming into a local network and/or when no web access is available.

17. Unzip the CD file software\icecast_server.zip onto your PC hard disk.
18. Start the Icecast server by double clicking on Icecast2win.exe (located in icecast server\Icecast2 Win32 directory).
19. Click on "Start Server" button.
20. Authorize the access (if your firewall asks for it)
21. Double click on ezstream.bat (located in icecast_server\Ezstream directory).
22. You can add mp3 music in the FreeMp3Files directory and modify the file playlist.m3u in directory Ezstream to add your music to the list.
23. The radio should now be streaming. You can test it by entering <http://127.0.0.1:8000/stream.mp3> in your web browser of the streaming machine.
24. Return to step 9 above



If you wish to restore to default settings after changing the configuration, please push the reset button while the user button is pressed and then release both buttons.