# **Quick Card**



# 3550R / 3920B / 8800SX Digital Radio Test Set TightVNC

This quick card describes how to use TightVNC to remotely operate a VIAVI Radio Test set.

VIAVI Radio Test sets have a VNC Server installed to allow easy access to controls from a remote computer, tablet or phone.

### **System Requirements**

- Personal Computer (PC) with TightVNC installed
- Router, Switch, or Direct Connect

## Download and install TightVNC

- Open and internet browser and navigate to <a href="http://www.tightvnc.com/download.php">http://www.tightvnc.com/download.php</a>
- Click to download TightVNC for Windows
- When installing TightVNC, select Custom under 'Choose Setup Type'



• Deselect TightVNC Server so that only the TightVNC Viewer is installed



#### TightVNC

Select the way you	u want features to be insta	aled.
Click the icons in th	e tree below to change th ht/WC 	e way features will be installed. TightVNC Server makes this computer available for remote viewers. This feature requires 0KB on your hard drive.
		Browse

#### **Network Setup**

Networking via Router or Switch (DHCP) vs Direct Network Connection

- If connecting through an existing network via a router or switch using DHCP, you can proceed to checking the IP address of the test set
- If directly connecting from a PC to the test set, you must use a crossover cable and assign a static IP for both the PC and test set (see below)
- To assign a static IP in Windows 7 or newer, type network and sharing into the Search box in the Start Menu and select Network and Sharing Center
- Click on Change adapter settings, then right-click on your local adapter and select Properties.
- Highlight Internet Protocol Version 4 (TCP/IPv4) and click Properties
- Select Use the following IP address and enter an IP address (ie 10.200.xxx.x)
- The Subnet mask field will auto-populate
- The static IP you set for the tester will need to be in the same range (consecutive address work best; if the PC is 10.200.150.20, set the tester to 10.200.150.22)

Find an artix net	working and c	onnection p	roblems
🍓 Choose homeg	roup and shari	ng options	
See more results			

Obtain an IP address automatica	ally						
) Use the following IP address:							
IP address:	10	2	200	۱.	150	) ,	100
Subnet mask:	255	•	0	•	0		0
Default gateway:							

# **Configuring 8800SX Connectivity Settings**

• On the 8800SX, select Utilities > Software > System

Gig Qt for Embedded Linux VNC Server - TightVNC Viewer	
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Generators v Receivers v Analyzers v Meters v Utilities	
Languag	e >
Presets	•
Store/Rev	call
Cal	•
Software	Options
Freq-Flex	System Contraction System
Aeroflex	
Self Test	
Auto Test	
File Mana	ager

- Select the Remote tab, which will display the IP address of the 8800SX
- If directly connecting, set the Network Mode to Static IP and the enter the IP address

Status Hardware   Port IP Address   Ethernet 10.200.151.34   Subnet Mask Gateway   255.255.0.0 10.200.1.90   DNS Server Network Mode   DHCP	
Status       Hardware       Remote       Clone Me         Port       IP Address       I0.200.151.34         Subnet Mask       Gateway         255.255.0.0       I0.200.1.90         DNS Server       Network Mode         DHCP       DHCP	Q   🖸
Status       Hardware       Remote       Cone Me         Port       IP Address       Inconstruction         Ethernet       Inconstruction       Inconstruction         Subnet Mask       Gateway       Gateway         255.255.00       Inconstruction       Inconstruction         DNS Server       Network Mode       DHCP         DHCP       DHCP       Inconstruction         System Config       System Config       Status	
Port     IP Address       Ethernet     10.200.151.34       Subnet Mask     Gateway       255.255.0     10.200.1.90       DNS Server     Network Mode       DHCP     DHCP	_
Port IP Address Ethernet 10.200.151.34 Subnet Mask Gateway 255.255.00 10.200.1.90 DNS Server Network Mode DHCP DHCP	
Ethernet 10.200.151.34 Subnet Mask Gateway 255.255.0.0 10.200.1.90 DNS Server Network Mode DHCP DHCP	IP Address
System Config	10.200.151.34
System Config	Gateway
Network Mode DHCP System Config	10.200.1.90
System Config	Network Mode
System Config	DHCP
System Config	
System Config 🦳	
System Config	

Networking ENABLED disabled DHCP enabled DISABLED

Validate Changes

NTP Clien enabled

> Sync NTP

INT

# **Configuring 3920B Connectivity Settings**

• From the Utils menu, go to Hardware Settings>Network

Network				
				Networking
		-		ENABLED
	User Calibration			disabled
	Error List			риср
	Store/Recall	0.4h30h13c		
	File Management	10-10-00 1-3C		ENABLED disabled
	Startup Options	.00 . 151 . 46		uistaneu
	Language Select	55 0 0		Volidato
	Hardware Settings 🔹 👂	Time Date	[	Changes
	Software Settings 💦 🧳	Keyboard & Mouse		
	Aeroflex	Remote		
		Printer Configuration		
	NTP Server 10.	Network		
	Print Server	Frequency Reference		NTP Client
	Software Update 24 .	Operational Status		
		Database Status		enabled DISABLED
				Sunc
				NTP
D25		AUT	ШТ	Detwee
FZJ		001	1141	Return

- The IP address is displayed
- If directly connecting, set DHCP to disabled and the enter the IP address
- After entering the IP address, press Validate Change

Network MAC Addr 00e04b30b13c	Networking ENABLED disabled DHCP ENABLED disabled	Network MAC Addr 00e04b30b13c
IP         00.200.151.46           Stubnet Mask 255.00.0         0.00           Gateway 100.200.11.90         1.90           DNS         10.200.11.249           Negotiation         Auto	Validate Changes	10 . 200 . 150 . 22 Subnet Mask 255 . 255 . 0 . 0 Gateway 10 . 200 . 1 . 90 DNS 10 . 200 . 1 . 249 Negotiation Auto
NTP Server 10 , 200 , 1 , 249 Print Server , , , , , , , , , , , , , , , , , , ,	NTP Client enabled DISABLED Sync NTP	NTP Server 10 . 200 . 1 . 249 Print Server
P25 AUT	INT Return	P25 AUT

3920 in DHCP mode (Network assigns the IP)

3920 in Static IP mode (Operator assigns the IP)

(Please note that with some Ethernet routers and switches, it may be necessary to select a 3920B Negotiation setting other than Auto, such as "100Base Half-Duplex" to avoid negotiation conflicts with the Ethernet router or switch.)



## **Configuring 3550R Connectivity Settings**

• On the 3550R, go to System>System Config



- Under the Remote tab, the IP address will be displayed
- If directly connecting, set the Network Mode to Static IP and the enter the IP address

Status Har	dware	Remote	Clor
Port			
Ethernet	_		
IP Address			
10.200.151.233			
Subnet Mask			
255.255.0.0			
Gateway			
10.200.1.90			
DNS Server			
Network Mode			
DHCP			



### Operating the test set with from your PC with TightVNC

- Launch TightVNC Viewer and enter the IP address of the test set that you wish to connect with.
- Click on the Connect button.

Connection		
Remote Host:	10.200.151.34 👻	Connect
Enter a name of append it after	or an IP address. To specify a port number, two colons (for example, mypc::5902).	Options
Reverse Conne	ctions	
Listening mode their desktops	allows people to attach your viewer to Viewer will wait for incoming connections.	Listening mode
FightWNC Viewe	r	
	TightVNC is cross-platform remote control s	oftware.
Links	Its source code is available to everyone, et	ther freely
VNC	(GNU GPL license) or commercially (with no	GFC resulctions).

#### 3920B Notes:

On the 3920B, the default password is 3900 (VNC Viewer Password can be changed in Utils > Hardware Settings > Remote)

On the 3920B, the remote keyboard can be used to access the following front panel keys:

ALT+A – Assign Key

ALT+T – Test Key

ALT+C – Config Key

ALT+U – Utils Key

**PGUP and PGDN – Up and Down arrows** 

F1 – Help, F2-F7 – Function Key selections, F8 - Return

8800SX Note: on the 8800SX, you cannot connect while a mouse is connected to the test set

8800SX & 3550R Note: on the 8800SX & 3550R, pressing F1 while using TightVNC viewer will pull up the System Menu