

Setting up a SQ20xx WIFI and Laptop for a Peer-to-peer (Ad-hoc) connection

Setting up the logger for a Peer-to-peer (Ad-hoc) connection

The SQ20xx WIFI needs to be powered by an external supply. Connect the logger to the laptop via the USB cable. Open up the Squirrelview software and using the Logger Selection set the correct Logger Type.

Click on the *Communication Wizard* Icon.



Select Ethernet (wired / wireless), click on Next

Communication Wizard	
🏷 Communication Wizard	
Communication	Type Selection
Please select Communication type	
💭 Serial - RS232	
USB (RS232 will default if not supported by logger)	
💭 Modern	
Ethernet (wired / wireless)	
Ethernet (Using vendor supplied redirector software)	
Default Connection	
	Next 🛃

Select **Configure wireless options for a logger with in-built wireless ethernet** Click on **Next**





The USB connection for the logger is shown in the box. Click on **Next**

₹ ₁ Communication Wizard	X
🏷 Communication Wizard	
3 of 7 - Connec	t logger
In order to configure the logger's wireless network options the logger be temporarily connected via USB Please connect the logger via USB now and select the logger below Logger Squirrel 20XX Logger	must
Back Ne	xt 🔁

Select *Peer-to-peer (Ad-hoc)* connection. Click on *Next*



Enter the *Name (SSID)*

Note: this needs to be remembered as it will be required when setting up the PC. Click on *Next*





Select the network security option that is required, if you choose something other than **None (Open)** a password will be required in a certain format.

Note: the password needs to be remembered as it will be required when setting up the PC. Click on *Next*



Click on *Finish*



The WIFI module on the logger will reset, this will take a few seconds, and the USB cable can be removed.

The laptop will now require setting up to make the WIFI connection to the SQ20xx WIFI.



<u>Setting up a PC running Microsoft Windows XP to connect to a SQ20xx WIFI Adhoc network</u>

Assuming you have configured the logger to join an unsecured (**None ad-hoc**) ad-hoc wireless network called "**Test**", and then an XP PC can be joined to the same network as follows:

Click on *Start > Connect To > Wireless Network Connection* to open the *Wireless Network Connection Status* dialog window

Click View Wireless Networks

((†)) Wireless Network Connection Status	?
General Support	
Connection	
Status:	Connected
Network:	GrantVisitor
Duration:	00:04:52
Speed:	11.0 Mbps
Signal Strength:	bite
Activity	- Received
Packets: 4,018	7,016
Properties Disable View Wirek	ess Networks
	Close

Click Change the order of preferred networks

Network Tasks	Choose a wireless network	
😴 Refresh network list	Click an item in the list below to connect to a wireless networ information.	k in range or to get more
Set up a wireless network	((q)) Grant¥isitor	Connected ☆
for a nome of small office	Unsecured wireless network	
Related Tasks	((Q)) linksyswrt54gl	
(i) Learn about wireless	Unsecured wireless network	
networking	((Q)) GrantDevelopment	
Change the order of preferred networks	Unsecured wireless network	
🍄 Change advanced	((Q)) ZyXEL	
settings	Unsecured wireless network	
	((Q)) GrantInstruments	
	🖡 🔒 🔒 Becurity-enabled wireless network (WPA2)	
	Panasonic Display1	On Demand 👷
	Unsecured computer-to-computer network	•0000



In the *Wireless Network Connection Properties* window select the *Wireless Networks* tab Click *Add...* to open the *Wireless network properties* dialog

🕹 Wireless Network Connection Properties 👘 ? 🔀
General Wireless Networks Advanced
Use Windows to configure my wireless network settings
Available networks:
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
View Wireless Networks
Preferred networks: Automatically connect to available networks in the order listed below:
A grant-wap2 (Automatic) Move down Some sonic Display1 (Dn Demand) Move down Some sonic Display1 (Dn Demand) Some sonic Display1 (Dn Demand) Some sonic Display1 (Dn Demand) Some sonic Display1 (Dn Demand)
Add Remove Properties
Learn about <u>setting up wireless network</u> Advanced
OK Cancel

Enter "Test" for the Network name (SSID) for the new ad-hoc network

Click the *This is a computer-to-computer (ad hoc) network; wireless access points are not used* checkbox Select *Open* for *Network Authentication*

Select **Disabled** for Data encryption Click **OK**

Click OK again

/ireless network prope	erties ?
Association Authentication	Connection
Network name (SSID):	Test
Connect even if this Wireless network key —	network is not broadcasting
This network requires a k	key for the following:
Network Authentication:	Open 💌
Data encryption:	Disabled 💙
Network key:	
Confirm network key:	
Key index (advanced):	1
The key is provided f	or me automatically
This is a computer-to-co access points are not u	amputer (ad hoc) network; wireless sed
	OK Cancel

It may take a few moments but the orange LED on the back of the logger should change from a medium (1 sec) flash indicating no association to a slow (4 sec) flash indicating the logger and PC have associated peer-to-peer.



Open the *Wireless Network Connection* dialog again Test should appear after a few moments "Acquiring network address" After a few more moments "Test" should change to "Connected"



Once it is working you should probably secure the network by changing the network authentication and data encryption above.



Setting up a PC running Microsoft Windows Vista or Windows 7 to connect to a SQ20xx WIFI Ad-hoc network

Assuming you have configured the logger to join an unsecured (**None ad-hoc**) ad-hoc wireless network called "**Test**", and then an XP PC can be joined to the same network as follows:

Click on *Start and Connect To* and the *Connect to a network* window appears Click on the *Set up a connection or network*

Discon	nect or connect to	another network		
Sho	w All	•	(47
Dial-up	and VPN VPN Connection s Network Connection	VPN connection	^	* III
\$	GrantInstruments	Connected	ller.	
<u></u>	GrantVisitor	Unsecured network		*
<u>Set up a c</u> Open Net	connection or network twork and Sharing Cente	<u>er</u>		
			Disconnect	ancel

Highlight on *Set up a wireless ad hoc (computer-to-computer) network* Click on *Next*

Choo:	Connect to a network se a connection option
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet. Set up a wireless router or access point Set up a new wireless network for your home or small business. Manually connect to a wireless network Choose this to connect to a hidden network or create a new wireless profile. Set up a wireless ad hoc (computer-to-computer) network Set up a temporary network for sharing files or an Internet connection. Set up a dial-up connection Connect through a dial-up connection to the Internet.
	Next Cancel



Click on **Next**

Enter the *Network name:* this is the *Name (SSID)* that has been entered into the logger during the Ethernet configuration.

Set the Security type: to No authentication (Open) as there has been no security set.

Note: if security has been set when setting up the logger, choose WEP and enter the security key. Click on *Next*

3	🙀 Set up a wireless ad ho	oc (computer-to-computer) networ	
	Give your network a r	name and choose security o	ptions
	Network name:	Test	
	Security type:	No authentication (Open)	Help me choose
	Security key/Passphrase:		Display characters
	Save this network		
			Next Cancel

It may take a few moments but the orange LED on the back of the logger should change from a medium (1 sec) flash indicating no association to a slow (4 sec) flash indicating the logger and PC have associated peer-to-peer.

Open the Connect to a network dialog window again

Test should appear after a few moments "Acquiring network address" After a few more moments "Test" should change to "Connected"

ک 💽 💽 💽 Discon Sh	onnect to a network nnect or connect to ow All	another network	
Wireles	ss Network Connection		^
~~	Test	Waiting for users to connect	llte
2	GrantInstruments	Security-enabled network	llue.
	GrantVisitor	Unsecured network	llter
<u>Set up a</u> Open Ne	connection or network etwork and Sharing Cent	<u>er</u>	
			Disconnect Cancel



Setting up the Squirrelview software to communicate with the logger.

Once the logger and the PC have been associated via the peer-to-peer (ad-hoc) connection, the logger will have an IP address. This you can find on the logger display by going into *Tools* and *IP Address*.

To enter the IP address into the Squirrelview software to enable the logger to communicate with the PC.

Click on the *Communication Wizard* Icon.



Select Ethernet (wired / wireless), click on Next

Communication Wizard
Communication Wizard
Communication Type Selection
Please select Communication type
💭 Serial - RS232
USB (RS232 will default if not supported by logger)
🔘 Modem
Ethernet (wired / wireless)
Ethernet (Using vendor supplied redirector software) Default Connection
Next 🔁

Select **Connect to a logger with in-built wired / wireless Ethernet** Click on **Next**





Enter the IP address that is can be found from the logger display Click on *Finish*

				3 of	3 - IP a
Please identii	y the logger t	y its IP addr	ess		
IP	address 1 9	2 . 168 . 55	• 124		
To discover r	earby loggers	s, press Find	Devices		
		Find Devices			

You will now be able to communicate via the WIFI connection between the laptop and data logger.

Note: if you are connecting two or more loggers to the laptop as well as switching between loggers in the Squirrelview software, you will also need to switch between the different network connections created for each logger on the laptop.

