Configuring the 20xx Inbuilt Ethernet Device.

中国代理商:

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Contents

Configuring the 20xx Inbuilt Ethernet Device.	. 1
Contents	2
Overview	3
Prereguisites	3
Setting the 20xx Loggers IP Address.	. 4
20xx Discovery	4
Email Notification Setup	6
The SQ20xx Applet	9
Prereguisites	9
Checking The Browser JVM Version	9
Updating the Java JVM	9
Execution Over an Intranet	9
Execution Over the Web	9

Overview

This document describes the process for configuring the 20xx range of loggers inbuilt Ethernet adaptor.

Prerequisites

Before proceeding with the installation you will require all of the following:

- A 20xx logger with inbuilt Ethernet
- A networked PC that is able to access the network on which you intend to connect the 20xx logger
- An Ethernet connection on the network you wish the SQ20xx logger to reside.
- Before proceeding you must speak to your network administrator to get the following information regarding the network you will be connecting the SQ20xx logger to:
 - The network gateway
 - The network subnet mask
 - An available IP address.
 - This should ideally be a static IP address.
 - If a static address cannot be found then the next best would be an assigned address.
 - The worst case would be a leased address with a significant timeout.

NOTE: One of the above must be found. Failure to do so could result in problems communicating with the logger in the event of a reset caused by a power failure.

- When you have the details from your network administrator as detailed above note them down here as they will be required when setting up communications from within SquirrelView and the logger.

- IP address.
- Subnet mask ____.
- Network gateway _____.

Setting the 20xx Loggers IP Address.

20xx Discovery

The 20xx Discovery program will allow you to find and select the 20xx logger(s) to be setup.

To run:

- 1. Go to the following directory:
 - a. \Program Files\SquirrelView\Tools\SQ20xx_Ethernet
- 2. Double click on the file Finder.exe. The 20xx Discovery program should appear as below after completing a search for connected 20xx loggers.

Devices		10.22	
IP Address	MAC Address	Name	Product
169.254.136.138	00:40:9d:2a:eb:20	Grant Data Logger	SQ20xx Ethernet
	Devices IP Address 169.254.136.138	IP Address MAC Address 169.254.136.138 00:40:9d:2a:eb:20	IP Address MAC Address Name 169.254.136.138 00:40:9d:2a:eb:20 Grant Data Logger

Next click on the logger you wish to configure in the list of devices:

onfiguration	Devices			
Configure IP Settings	IP Address	MAC Address	Name	Product
	169.254 136 138	00:40:9d:2a:eb:20	Grant Data Logger	SQ20xx Ethernet
Reboot Device				
<u>B</u> efresh List				
Device Info				
 Open Web Interface				

Then click on the 'Configure IP Settings' button to display the configuration dialog

a IP Settings	IP Address	MAC Address	Name	Product
e n' octange	169.254.136.138	00:40:9d:2a:eb:20	Grant Data Logger	SQ20xx Ethernet
ot Device				
resh List				
ice Info				
b Interface				

From this dialog you can type in the settings provided by your network administrator by selecting the 'Manually configure network settings' radio button.

Set IP Address		×
Assign an IP Address, Digi device, Contact not know this informat	subnet mask and gateway to your network administrator if y ion.	your ou do
Product:	SQ20xx Ethernet	
MAC Address:	00:40:9d:2a:eb:20	
C Automatically ob	utain network settings via DHC	P
Manually config	ure network settings	P
IP Address:	169 . 254 . 136 . 13	3
Subnet Mask:	255 , 255 , 0 , 0	
Default Gateway	0.0.0.0	
Password:	Cancel	

After filling in the three fields type **dbps** into the password field.

Finally click 'Apply' to send your settings to the logger.

- Configuration of the IP settings is now complete.

Email Notification Setup

The logger may be setup to send an email when a new alarm is raised. Before starting to setup the alarm notification you need to ensure you have the following:

- Access to a web browser which can be connected to the 20xx device
- Mail Server Address
- Logger IP address
- Email Address for recipient

To setup email notification perform the following steps:

- Open web browser
- Type in the address of the 20xx logger followed by /home.htm
 - e.g. http://192.168.1.237/home.htm
 - Enter username and password
 - Username 'root' (default)
 - Password 'dbps' (default)
- Select alarms

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ess 🙋 http://169.254.136.138/h	me.htm	<u>▼</u> ~60 Li
Grant	SQ20xx Ethernet Configuration and Management	
		Hel
me	Home	
nfiguration	Getting Started	
Gerial Ports GPIO	Tutorial Not sure what to do next? This Tutorial can help.	
Alarms	System Summary	
Remote Management Jsers	Model: SQ20xx Ethernet IP Address: 169.254.136.138	
anagement Serial Ports	MAC Address: 00:40:90:2A:E8:20	
Connections	Description: None	
ministration	Contact: None Location: None	
Backup/Restore Jpdate Firmware	Device ID: 0000000-0000000-00409DFF-FF24E262	
System Information	User Interface	
Reboot	Web Interface (Default): Enabled	
gout	Custom Interface: Launch Set as Default	

- Tick the 'Enable alarm notifications' tick box
- Type in the IP address of your companies mail server
- Type in the email address of the logger
- Tick 'Enable' tick box of the alarm you wish to use
- Click on the 'Apply Button' at the bottom of the window

Grant Instruments

Inbuilt Ethernet Configuration

5Q20xx Ethernet Configuration an	id Management	- Microsoft	Internet E	xplorer					- 181 ×
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Serial Ports	A	vi. 10							-
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Serial Ports	-								
Connections	Alarm Co	nditions							
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File Management Backup/Restore	O	Alarm 1	gpio	****	disabled				
Update Firmware	Г	Alarm 2	gpio	* * * * *	disabled				
Factory Default Settings		Alarm 3	gpio	* * * * *	disabled				
Reboot	Г	Alarm 4	gpio	*****	disabled				
Logout		Alarm 5	gpio	****	disabled				
	Г	Alarm 6	gpio	*****	disabled				Ĩ.
		Alarm 7	gpio	*****	disabled				
	Г	Alarm 8	qpio	* * * * *	disabled				
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- Click on the alarm you wish to configure, this should be the same alarm that you enabled in the previous step.

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dress 🕘 http://169.254.136.138/co	nfig/alarms/alarms	_config.htm						_	€Go	Links '
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									?	Help
Home	Alarms	Configu	ation							
Configuration	Alarm No	tification Sel	tings							
Serial Ports	🗆 Enat	ole alarm no	tification	s						
GPIO Alarms	Ma	iil Server Ado	dress (SM	ите): [0.]).0.0	1				
System Remote Management		From E-	Mail Add	ress:		415 				-
Users	Annly									-
Management Serial Ports	1. apply									
Connections	Alarm Co	nditions								
Administration	Enable	Alarm	Туре	Trigger	SNMP Trap	Send To	Email Subject			
Backup/Restore		Alarm 1	gpio	* * * * *	disabled					
Update Firmware		Alarm 2	gpio	* * * * *	disabled					
System Information		Alarm 3	gpio	* * * * *	disabled					
Reboot		Alarm 4	gpio	* * * * *	disabled					
Logout		Alarm 5	gpio	$\times \times \times \times \times$	disabled					
		Alarm 6	gpio	* * * * *	disabled					
		Alarm 7	gpio	****	disabled					
		Alarm 8	qpio	*****	disabled					
		Alarmo								

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- In the 'Pin 2' pull down box select the 'Low' option
 - Ensure that all other pins are set to 'Ignore'
- Tick the 'Send E-mail to the following recipients when the alarm occurs' tick box
- Type in the email address you wish the notification to be sent to _
- Type in the text you wish to appear in the subject field of the email.
 Finally click on the 'Apply Button' then logout of the 20xx device setup page.

SQ20xx Ethernet Configuration a	nd Management - Microsoft Internet Explorer			_ 8 ×
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🕁 Back 🔹 🔿 🚽 🙆 🕼 🧔 S	iearch 🗟 Favorites 🛞 Media 🎯 🛃 - 🎒 😨 😨			
Address 🔊 http://169.254.136.138/cor	ifig/alarms/alarm_edit.htm?1	-	e de la	Links >
Grant	SQ20xx Ethernet Configuration and Management			-1
Home	Alarm 1 Configuration		? F	Help
Configuration Network Serial Ports GPIO	Alarm Conditions Send alarms based on GPIO pin states			
Alarms System Remote Management Users	Pin 1: Ignore ▼ Pin 2: Low ▼ Pin 4: Ignore ▼ Pin 5: Ignore ▼	Pin 3:	Ignore -	3
Management Serial Ports Connections Administration File Management	Alarm recurrence time: 10 secs			
Backup/Restore Update Firmware Factory Default Settings System Information Reboot	C Send alarms based on serial data pattern matching Pattern: default			
Logout	Alarm Destinations Send E-mail to the following receipients when alarm occurs To: CC: Priority: Normal			
Done		🚺 👩 Inter	net	

The SQ20xx Applet.

Prerequisites

Before proceeding with the installation you will require all of the following:

- You must complete the previous section(s) in this document i.e. the device must be configured and communicating with SquirrelView.
- The users browser must have the latest Java Virtual Machine from Sun Microsystems installed. (See following section)

Checking The Browser JVM Version

Before running the SQ20xx Applet the Java Virtual Machine (JVM) of the browser should be upgraded to the latest version from Sun Microsystems. To check the JVM on a machine running Microsoft Internet Explorer perform the following steps:

- 1. Start Microsoft Internet Explorer browser.
- 2. Select the 'Tools' menus and then the 'Internet Options..' menu item.
- 3. In the next dialog click on the 'Advanced' tab.
- 4. Scroll through the list of items and check for an entry with the title 'Java (Sun)'. If this does not exist or the version number is less than 'Java 2 v1.4.2_04' then you should carry out the steps in the 'Updating the Java JVM' section.

Updating the Java JVM

The latest JVM can be downloaded from the web site www.java.com. From this site select the 'Manual Download' link and then download the appropriate file for your operating system. If you are using Microsoft Windows use the 'Windows (Offline Installation)' link and double click on the downloaded file to install the JVM.

Execution Over an Intranet

You may now run the SQ20xx applet by entering the IP address of the SQ20xx device in a browser.

This will bring up the SQ20xx Ethernet Configuration and Management window.

- Enter username and password
 - Username 'root' (default)
 - Password 'dbps' (default)

Click on the 'Set as Default'

This will enable a connection straight to the SQ20xx applet in future when the IP address is entered into the browser. The Username and Password will need to be enter each time.

To enter the SQ20xx Ethernet Configuration and Management window after this you will need to type in the IP address of the 20xx logger followed by /home.htm to the browser.

• e.g. http://192.168.1.237/home.htm

Execution Over the Web

Once the SQ20xx Applet is working over the intranet the user must get access to this from the internet to view the applet from the web. To do this the users I.T. department should allow access to the devices IP address from an IP address or URL external to the companies.