

SCE-ETHCK SETUP

This manual is made for software setup of SCE-ETHCK for installation instructions follow this link saginawcontrol.com/instman/sce-ethck-manual.pdf or scan the QR code to the right.

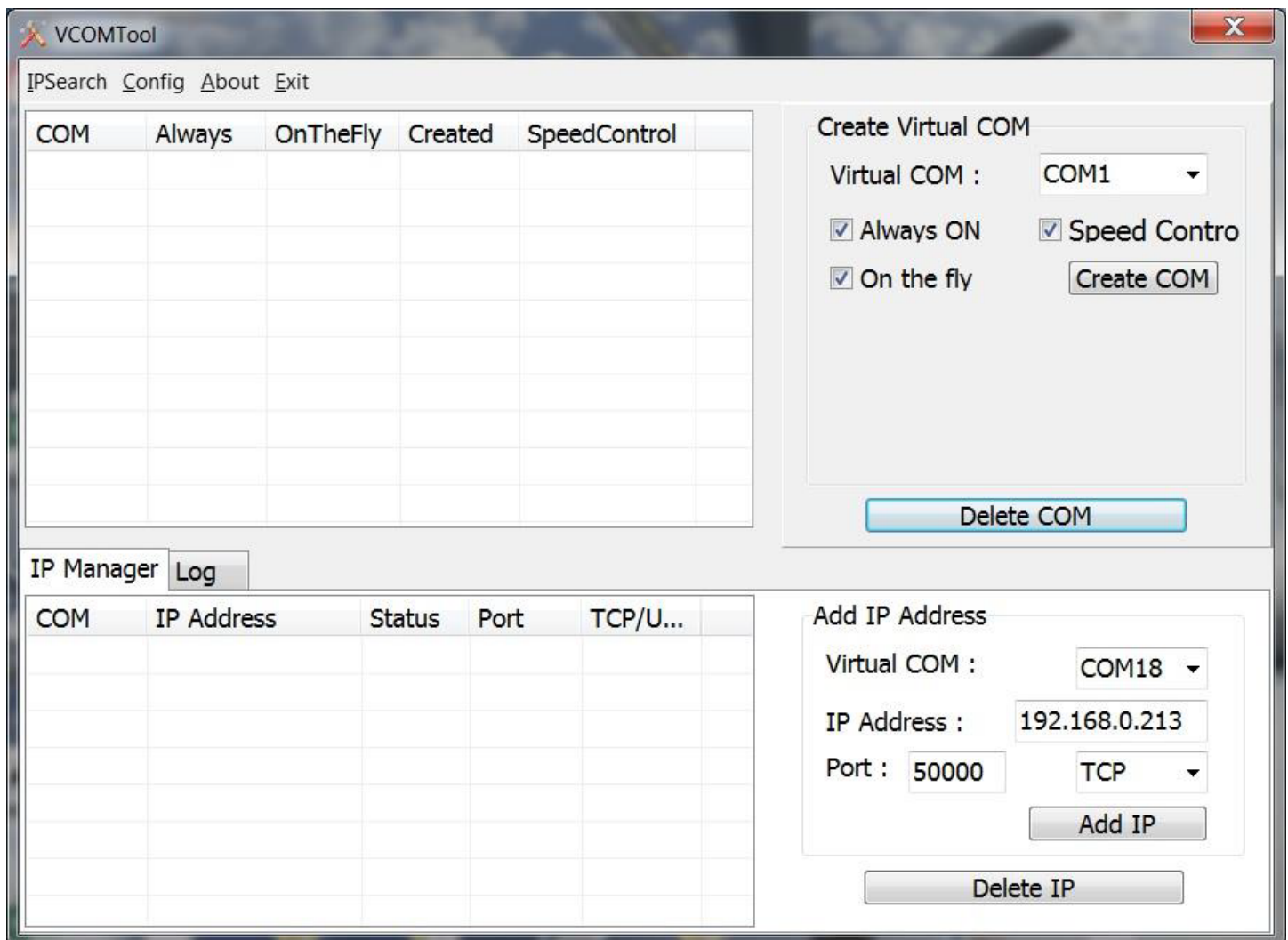


System Setup

Install the software 'VCOMToolSetup.exe' from the link provided. Install all the drivers being asked for during the installation of this software. This software will act as the Virtual COM Port to connect to the BF430 using a normal COM Port instead of an IP Address. This software is configured only once and restarts automatically with Windows.

<https://www.gridconnect.com/products/industrial-serial-rs232-ethernet-rs485-converter-bf-430>
Select 'DOCUMENTS & DRIVERS' and download 'BF-430 Product CD'

When installation is complete, open the software. The following is the main interface:



At this stage, connect the BF430 to the network, to perform a network search.

Select **IPSearch** in the VCOM tool to launch the **IP Locator** utility.

Select **Refresh** to find the unit on the network. The unit will be displayed in the available rows.

To change the unit parameters, click on the respective row, and modify the settings on the table below, then click **Alter**.

The screenshot shows the IP Locator application window. At the top, there is a menu bar with 'Administrators' and 'Help'. Below the menu bar is a table with the following columns: Device Name, Location, Model Name, IP Address, Subnet mask, Gateway, and MAC Address. The table contains one row with the following data:

Device Name	Location	Model Name	IP Address	Subnet mask	Gateway	MAC Address
1 CHIYU		BF430 232/485 TC	192.168.2.249	255.255.0.0	192.168.0.2	00 0E E3 04 BD FA

Below the table, there is a section for configuration. On the left, there is a text area titled 'Bluetooth Device (Personal Area Network)' with the following text:

```
Active Route :
IP Address : 0.0.0.0
Subnet Mask : 0.0.0.0
Gateway : 0.0.0.0
```

On the right, there are input fields for the following parameters:

- IP Address : 192 . 168 . 2 . 249
- Subnet Mask : 255 . 255 . 0 . 0
- Gateway : 192 . 168 . 0 . 2
- Mac Address : 00 0E E3 04 BD FA

At the bottom right, there are three buttons: 'Refresh', 'Exit', and 'Alter'.



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Use the VCOMTool, to create a Virtual COM and link it to an IP Address.

In the **'Create Virtual Com'** section, choose any COM number from the drop-down list and select **Create COM**. The newly created COM port will be displayed in the table on the left. Make sure that check box **'Always ON'** is ticked so that connection is re-established automatically in case there is any network problems.

In the **'Add IP Address'** section, enter the respective IP Address of the BF430 in the **IP Address** text box, the specific port which will be using in the **Port** text box (in this case 50000) and select **TCP**. Select **Add IP** and the IP/COM port link will be included in the **IP Manager** table. Important that the BF430 must be switched ON with the respective IP Address.

The screenshot shows the VCOMTool application window. It has a menu bar with 'IPSearch', 'Config', 'About', and 'Exit'. The main area is divided into four sections:

- Table 1 (Top Left):** A table with columns: COM, Always, OnTheFly, Created, SpeedControl. It contains one row: COM18, y, y, On, y.
- Create Virtual COM (Top Right):** A panel with a 'Virtual COM' dropdown menu set to 'COM19'. It has two checked checkboxes: 'Always ON' and 'On the fly'. There is also a 'Speed Control' checkbox which is checked. A 'Create COM' button is at the bottom right of this panel. A 'Delete COM' button is located below this panel.
- IP Manager (Bottom Left):** A panel with a 'Log' button and a table with columns: COM, IP Address, Status, Port, TCP/U... It contains one row: COM18, 192.168.2.249, On, 50000, TCP.
- Add IP Address (Bottom Right):** A panel with a 'Virtual COM' dropdown menu set to 'COM18'. It has text boxes for 'IP Address' (192.168.2.249) and 'Port' (50000). A 'TCP' dropdown menu is also present. An 'Add IP' button is at the bottom right of this panel. A 'Delete IP' button is located below this panel.



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Open a web browser and connect to the unit using the IP Address. Check for the following parameters:

TYPE	STATIC IP (Drop down on top in the One Page Setup).
IP Address	Set according to the network
Subnet Mask	Set according to the network
Gateway	Set according to the network
Serial Type	RS232/RS485 (Also need to be set from a small switch on the BF430)
Baud Rate	Based on Application
Connection Mode	TCP SERVER
Connection Port Number	Based on Application

One Page Setup

The screenshot displays the 'One Page Quick Setup (Fixed IP)' web interface. The browser address bar shows '192.168.2.249'. The interface includes a sidebar menu with the following sections:

- Main Menu**
 - One Page Setup
- Advanced Setup**
 - Operation Mode
 - Serial Type
 - Dynamic DNS
- Management**
 - Device Admin
 - System Status
 - Backup & Restore
 - Upgrade Firmware
 - Ping

The main configuration area is titled 'One Page Quick Setup (Fixed IP)' and includes a dropdown menu for 'TYPE: STATIC IP'. The configuration fields are as follows:

- IP Address:** 192, 168, 2, 249
- Subnet mask:** 255, 255, 0, 0
- Gateway:** 192, 168, 0, 2
- Primary DNS:** 168, 95, 1, 1
- Serial Port Mode**
 - Serial Type:** RS232
 - Baud Rate:** 19200 (User Defined)
- Operation Mode**
 - Connection Mode:** TCP SERVER
 - Connection Port Number:** 50000
 - Remote Host IP Address (For Client Only):** 0, 0, 0, 0

Buttons for 'APPLY', 'CANCEL', and 'BACK' are located at the bottom of the configuration area.



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The following pages does not need to be modified. They are just for reference only.

The screenshot shows the 'Operation Mode Setup (TCP Server)' page. The left sidebar contains a navigation menu with sections: Main Menu (One Page Setup), Advanced Setup (Operation Mode, Serial Type, Dynamic DNS), and Management (Device Admin, System Status, Backup & Restore, Upgrade Firmware, Ping). The main content area is titled 'Operation Mode Setup (TCP Server)' and includes a dropdown for 'MODE: TCP SERVER'. Below this is a table of configuration options:

Local Listen Port Number	50000
Close Connection When Remote Idle	100 (seconds)
Access Password	(maxlen 31)
Keep Alive Check	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Max TCP Connection	1
Real COM	<input type="checkbox"/> ENABLE
Keep the Serial connection open	<input checked="" type="radio"/> All The Time <input type="radio"/> After TCP Connected

At the bottom of the table are buttons for 'APPLY', 'CANCEL', and 'BACK'. The footer of the page reads 'realcom web ver 1.1(Nov. 16 2012)'.

The screenshot shows the 'Serial Port Setup' page. The left sidebar is identical to the previous page. The main content area is titled 'Serial Port Setup' and contains a table of configuration options:

Serial Type	RS232
Baud Rate	19200 (User Defined)
Data Bits	8
Parity Check	None
Stop Bits	1
Flow Control	None
Force Packet Transmit Time	0 (0 - 65535)ms
Force Packet Transmit Length	0 (0 - 65535)bytes
Delimiter 1	0x00 (HEX) <input type="radio"/> Enable <input checked="" type="radio"/> Disable
Delimiter 2	0x00 (HEX) <input type="radio"/> Enable <input checked="" type="radio"/> Disable
RS485 Transmission Delay Time	0 (0 - 65535)us <i>Note: for RS485 only</i>

At the bottom of the table are buttons for 'APPLY', 'CANCEL', and 'BACK'. The footer of the page reads 'realcom web ver 1.1(Nov. 16 2012)'.




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DDNS Setup

DDNS Services: Disabled ▾

Status : DDNS function is disabled



BF-430

Main Menu

- One Page Setup

Advanced Setup

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Management

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Device Administration Setting



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Main Menu

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<p>Block Standard Http Port(80) Management</p> <p>Device Management IP Address</p> <p>Device Hostname</p> <p>Device Location</p>	<p style="text-align: center;"><input checked="" type="radio"/> UNBLOCK <input type="radio"/> BLOCK</p> <p>192 .168 .200 .200</p> <p>CHIYU</p> <p></p> <p style="text-align: right;"><input type="button" value="APPLY"/></p>
<p>Administrator Password</p>	<p>User Name</p> <p>Password Change</p> <p>Password Confirm</p> <p style="text-align: right;"><input type="button" value="APPLY"/></p>
<p>Block Ping Request</p>	<p style="text-align: center;"><input checked="" type="radio"/> UNBLOCK <input type="radio"/> BLOCK</p> <p style="text-align: right;"><input type="button" value="APPLY"/></p>
<p>MAC Address Change</p>	<p>00 :00 :00 :00 :00 :00</p> <p style="text-align: right;"><input type="button" value="APPLY"/></p>

Reset System to Factory Default

Reboot System


192.168.2.249/manage.htm



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BF-430 Status Monitor



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System Status	
Product Name:	BF430 232/485 TCP/IP Converter
Firmware Version:	1.16.00,Nov 16 2012
System Up Time:	0H:21M:40S


Ethernet Status	
IP Configuration Mode:	STATIC IP
Operation Mode:	TCP SERVER
Connection Port:	50000
MAC Address:	00:0e:e3:04:bd:f9
IP Address:	192.168.2.249
Subnet mask:	255.255.0.0
Default Gateway:	192.168.0.2
Primary DNS:	168.95.1.1
STATUS:	Up

Serial Status	
Serial Type:	RS232
Baud Rate:	19200
Data Bits:	8
Parity Check:	none
Stop Bits:	1
Flow Control:	None

Statistic		
Ethernet :	TX Bytes:	272974 bytes
	TX Packets:	2351 packets
	RX Bytes:	2714826 bytes
	RX Packets:	35064 packets
Serial:	TX Bytes:	8827 bytes
	RX Bytes:	20176 bytes

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Backup & Restore Configuration



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Main Menu

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Backup

Restore

Please select a configuration file to restore : No file chosen



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Firmware Upgrade

Warning: Upgrade must NOT be interrupted

Please select a file to upgrade

Choose File
No file chosen
UPGRADE

BACK



BF-430

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Networking Diagnostic (PING)

Source IP Address :	192.168.2.249						
Destination IP Address :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>				
Packet Number :	<input type="text" value="4"/>	(1 - 6)					
Packet Size :	<input type="text" value="60"/>	(maximum 1460 Bytes)					
Ping Result :	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Sent Request:</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Receive Reply:</td> <td style="text-align: center;">0</td> </tr> </table>			Sent Request:	0	Receive Reply:	0
Sent Request:	0						
Receive Reply:	0						

PING CANCEL BACK



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