

WIZnet Virtual Serial Port for Serial-to-Ethernet enabled CPnnnn Control Panels

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ETHERNET INTERFACE ENABLED CONTROL PANELS

The CPnnnn-SUE control panels from [E³] use the WIZNET WIZ550SR virtual serial port module for Ethernet interface to the CC0064 controller and CP panel.

This document provides a description for the download of the required drivers and software, registration of the MAC address, and installation and configuration of the Virtual Serial Port on a CP1201 panel.

Other CP panels use the same procedure.

For more detailed information, please visit the WIZNET website at <u>www.wiznet.io</u> and our website at <u>www.e3-keys.com</u>.

DRIVER AND SOFTWARE DOWNLOAD

Before you can use the Ethernet interface enabled CP panel you need to download and install the required drivers and software from WIZNET.

WIZnet Configuration Tool (JAR) WIZnet WIZ VSP Program (ZIP)

CONFIGURATION OF VIRTUAL SERIAL PORT

1. To start using the Ethernet interface of the CP1201 control panel, connect the panel to your network via an RJ45 cable and connect the power supply to the CP1201.



2. All LCD switches will turn to red background color and display the [E³] logo.



3. Run WIZnet_Configuration_Tool.jar

If necessary install the latest version of JAVA SE runtime environment here.

st of Modules	Network Setting	Serial Setting	Options Setting
WiZnet	Port Cocal	USART Baud Rate 300 Data Bits 7 Parity None Stop Bits 1 Flow None AT Command Enable Trigger Code (in HEX) Packing Conditions Time(ms) Size(byte)	Module Name Password Setting Password Connection Password DHCP Use DHCP DNS Use DNS DNS Server IP Domain
Search Method Broadcast IP Address MAC Address	Timer Inactivity Seconds Reconnection ms	Char (in HEX) Length 0	
	Firmware Version	Network Status	

4. Click Search

of Modules	Network Setting	Serial Setting	Options Setting
110000	IP	USART	Module Name
WIZ550SR	IP 192.168.2.95	Baud Rate 115200	CP1201-170901
00:08:DC:50:74:22	Gateway 192.168.2.1	DataRite 9	Password
	Subnet 255.255.255.0		Setting Password
	Rest IP 192.168.77.101	Parity None	<u> </u>
	Port	Stop Bits 1	Connection Password
	Local Port 5000	Flow None	WIZnet
	Remote Port 5000	AT Command	DHGP
	Working Mode	✓ Enable	Use DHCP
	Client	Trigger Code (in HEX)	DNS
	TCP Server	2B 2B 2B	Use DNS
	TCP Mixed	Packing Conditions	DNS Server IP
	O UDP	Time(ms) 0	192.168.2.2
	Timer	Size(byte) 0	Domain
arch Method	Inactivity	Char (in HEX)	
Broadcast	0 Seconds	Length 0	
ID Address	Reconnection	2D 2D 2D 2D	
J IF MUUICOS	1000 ms	Append 0	
) MAC Address			
	Firmware Version	Network Status	
	1.0.0	Disconnected	

The WIZnet configuration tool will search your network for a WIZnet module with the registered MAC address.

Configuration	Example	Your settings
MAC Address:	00:08:DC:50:74:22	
IP Settings:		
IP Address:	192.168.2.95	
Gateway:	192.168.2.1	
Subnet:	255.255.255.0	
Host IP:	192.1168.77.101	
Serial Settings:		
Baud Rate:	115200	<u>115200</u>
Data Bits:	8	8
Parity:	None	None
Stop Bits:	1	1
Flow:	None	None
Module Name:	CP1201-170901	
Password:		
Settings:	WIZnet	
Connection	WIZnet	

The default settings for a CP1201 panels are shown in the example above. Please write down the corresponding settings of your device for your records. If you wish to use a static IP addresses, DNS server, different passwords for settings and connections, please refer to the WiZ550SR Programmers Guide for more details.

5. Download the WIZVSP program <u>here</u> after you provided the registration information and MAC addess. You will be able to download the **WIZVSP_v180_R1.ZIP** file.

You will received an e-mail from the WIZNET Support Team with your serial key, which is required for the next step.

 Run Setup.exe for the WIZVSP_v180_R1 virtual seral port installation and follow the installation instructions.



7. Start the WIZ VSP program by double-clicking on the WIZ VSP icon.

Edit	🛞 WIZ VSP Ver1.8.0	↔ – □ ×
Serial to Ethernet Server COM3 [Client] Local COM3 [Virtual] Port status: Created Connected to 0 from 1 192.168.2.95:5000 - Dis Protocol: RAW Encryption: Disabled Authorization: Disabled Select connection type you want to create Select port type you want to create Select Serial Port Connect serial port to receive data: 5000 Add IP address Port IP address IP address Port IP address IP address Port IP address IP	🔗 Edit 🔞 Delete 👩 Delet	ie all 📀 Help 🔞 Exit
	Serial to Ethernet Server COM3 [Client] Decal COM3 [Virtual] Det status: Created Connected to 0 from 1 Det status: Created Oronected to 0 from 1 Det status: Created Det connected to 0 from 1 Det status: Created Det connected to 0 from 1 Det status: Created Det connected to 0 from 1 Det status: Created Det connected to 0 from 1 De	Image: Create Connection Image: Create Connection COM3 [Client] Create connection Type Connection prefs Signal lines Proxy / Security Select connection type you want to create Share serial port for incoming connection (Server) Connect serial port to remote host (Client) Share serial port using UDP Select port type you want to create Create as virtual serial port Select Serial Port COM3 Create as virtual serial port Select Serial Port COM3 Strict baudrate emulation Remote IP/Host name: 192.168.2.95 5000 Add IP address Port Image: Note: If you choose 2 and more IP's TELNET protocol will be unavailable! Ip2.168.2.95 5000 Image: Note: Image: Note: Image: Note: Ip2.168.2.95 5000 Image: Note: Image: Note: Image: Note: Ip2.168.2.95 5000 Image: Note: Image: Note: Image: Note: Image: Note: Ip2.168.2.95 5000 Image: Note: Image: Note: Image: Note: Image: Note: Ip2.168.2.95 5000 Image: Note: Image: Note: Image: Note: Image: Note:

8. Under the Create Connection tab, select **Connect serial port to remote host (Client)**, select a free **COM** port and enter the **IP address** assigned to your CP panel (see above)

Click Add and Create connection

NOTE: You must transmit the Connection Password within 5000 msec (see above; default WIZnet) to establish the virtual serial port. Otherwise WIZ VSP will disconnect and try to restart the connection. This will be done automatically if you start the **CPControl** program within 5 seconds of creating the VSP connection (see CPControl manual).

The virtual COM port status is shown in the left pane.

The WIZ virtual serial port is ready to use.

Notices

Copyright Notice

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Technical Notice

This datasheet is intended for technically qualified personnel trained in the field of electronics.

The knowledge of electronics and the technically correct implementation of the content of this datasheet are required for problem free installation, implementation and safe operation of the described product. Only qualified personnel have the required knowhow to implement the specifications given in this data sheet.

For clarity, not all details regarding the product or its implementation, installation, operation, or maintenance have been included. Should you require additional information or further assistance, please contact your local [E³] distributor or [E³] Engstler Elektronik Entwicklung GmbH at <u>techsupport@e3-keys.com</u>. You may also visit our website at <u>www.e3-keys.com</u>.

Warranty Disclaimer

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ORDERING **I**NFORMATION

Part Number	Description
CPnnnn-SUE	Control panels with RS232, USB and Ethernet interfaces
Sx6432-B	Sx6432 pushbutton keyswitch with 64x24 pixel display
	Black housing (RAL 9005)

CHANGE HISTORY

Version	Date	Comments
0.1	09/13/17	Initial draft document
0.2	11/28/17	Draft revisions
1.0	12/11/17	Release version
1.1	02/27/18	Layout correction
1.2	07/15/20	New Formatting
2.0	06/16/22	Updated release document
2.1	10/24/24	New corporate address

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