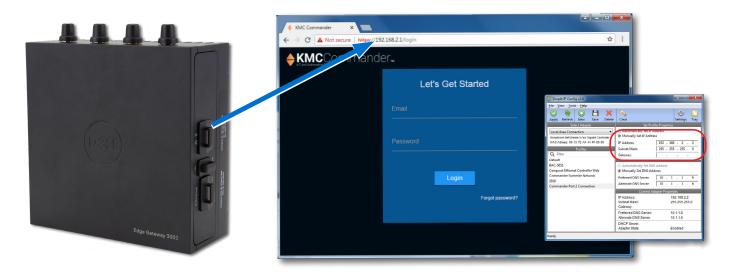


# **KMC Commander Port 2 Ethernet Connection**

# **Application Guide**



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# Introduction

This application guide describes how to connect to Port 2 of the KMC Commander appliance/gateway. This can be used, for example, as:

- An **Ethernet connection for initial setup** that is an alternative to using the Wi-Fi connection for initial setup.
- A **back-up connection** if both Port 1 and Wi-Fi are accidentally disabled during configuration (but Port 2 is still enabled).
- **NOTE:** If you are unable to connect using Wi-Fi during initial setup of a new appliance/gateway, use this method instead.
- **NOTE:** This method will not work if the default Port 2 configuration settings have been changed and the new IP address for Port 2 is forgotten.

This method may require changing the IP address of the connecting computer. See Change a Computer's IP Address with a Utility on page 2 or Change a Computer's IP Address Manually on page 3 for details.

**NOTE:** For additional instructions, see the **KMC Commander Installation Guide** on the KMC web site.



## **Connecting to Port 2**

- 1. Remove the plastic cover from Port 2 if it is still inserted.
- **NOTE:** Port **2** is the upper connector on the side opposite of the power connection.
- 2. Connect a laptop or PC to Ethernet Port 2 with an Ethernet patch cable.
- 3. Open a browser window and enter the address **192.168.2.1**:
  - If the browser connects properly to the log in screen, proceed as directed in the KMC Commander Installation Guide.
  - Or if not, change the IP address of the computer as described in one of the next two sections and try again.
- **NOTE:** If the IP address for Port 2 has been changed, use the new address instead of 192.168.2.1. The following instructions are for the default address.



# Change a Computer's IP Address with a Utility

The IP address of a computer can be changed by several different methods. The easiest method for users who will change their IP address on multiple occasions is to install an IP address changing utility (such as **Simple IP Config** available from **GitHub**). See the instructions with the software.

In the software:

- 1. Save a record/setting of your existing computer's address information!
- 2. **Enter** the following for the computer's temporary new IP address, Subnet mask, and Gateway:
  - IP address-192.168.2.x (where x is a number between 2 and 255)
  - Subnet mask-255.255.255.0
  - Gateway-Leave empty or unchanged (or if that does not work, use 192.168.2.\*\*\*, where the last digits are different than the IP address in the computer or KMC Commander)

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Apply	Refresh	New	Save	Delete	Clear			Setting	s Ti	ray
	Sel	ect Adapi	ter		Set	Profile Prope	rties			
Local Area Connection				Automatically Set	IP Address					
Broadcom NetXtreme 57xx Gigabit Controller					Manually Set IP A	ddress				
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		Profiles			Subnet Mask:	255 .	255	. 255	. 0	ł.
O Fi	ter				Gateway:					-

Diagnose and repair network problems, or get trouble

Set up a broadband, dial-up, or VPN

-

## Change a Computer's IP Address Manually

#### Introduction

Phone Link your Android, iPhone

Update & Security

Apps Uninstall,

Windows Settings

Find a setting

Devices

Personalization

Time & Language

Privacy

Status

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Network status

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You're connected to the Internet If you have a limited data plan, you can make this network a metered connection or change other properties.

Change your network settings

Change connection properties

w available networks

Change adapter options

Network troubleshooter

Sharing options

Settings

Display, s

Network & Internet

Ease of Access

A Home

🕑 Status

Ethernet

n Dial-u

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Airplane mode

(ii) Mobile hotspot

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 Proxy

Network & Internet

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To change your computer's IP address manually, follow the instructions (or the equivalent for your hardware and operating system) for **Windows 10 (Settings)** on page 3 or **Windows 7 (Control Panel) on page 4**.

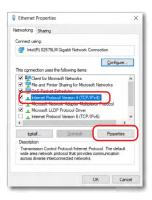
- NOTE: Screens will look different in different versions of Microsoft Windows.
- **NOTE:** Depending on the computer and version of Windows, the exact name for the connection to KMC Commander may be Ethernet, Local Area Connection, or something similar.

#### Windows 10 (Settings)

- 1. Click the Start button.
- 2. In the Start menu, click **Settings** (the gear icon).
- 3. In Windows Settings, click Network and Internet.
- 4. Click Ethernet.
- 5. Click Network and Sharing Center.
- 6. Click Connections: Ethernet.
- 7. Click Properties.
- 8. Click Internet Protocol Version 4 (TCP/IPv4) and then Properties.

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Find a setting	P Ethernet					
Network & Internet						
🖨 Status						
🙇 Wi-Fi	Related settings Change adapter options					
😨 Ethernet	Change advanced sharing options					
n Dial-up	Network and Sharing Center					
•%• VPN	Windows Firewall					
珍 Airplane mode	Have a question?					
(1) Mobile hotspot	Diagnose network connection issues					
🕑 Data usage	Get help					
Proxy	Make Windows better					
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🔶 🚽 🗹 🛧 😫 > Control I	Panel > All Control Panel Items > Network and Sharing Cent	er				
Control Panel Home	View your basic network information and s	et up connections				
Change adapter settings	View your active networks					
Change advanced sharing settings	kmc-controls.com Domain network	Access type: Internet Connections: C Ethernet				
Media streaming ontions	Domain network	connections, we Ethernet				

Connection		
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IPv6 Connectiv	vity:	No network access
Media State:		Enabled
Duration:		02:31:59
Speed:		1.0 Gbps
Activity		
Activity	Sent —	Received
Activity ———	Sent —— 39,231,670	



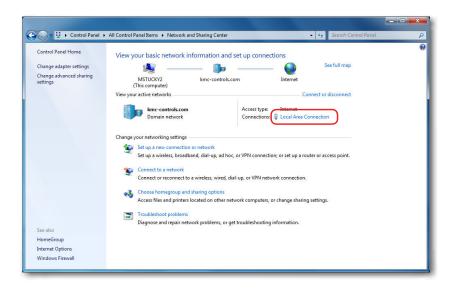
ternet Protocol Version 4 (TCP/I	Pv4) Properties
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Use the following IP address	
IP address:	192.168.2.2
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address a     Obtain DNS server	
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

- NOTE: Record the EXISTING Properties settings!
- **NOTE:** If **Obtain an IP address automatically** is selected, the IP address and Subnet mask of the computer are not shown. They can be seen, however, by running ipconfig from a command prompt. To run ipconfig, type **cmd** in the Search box, at Command Prompt App press **Enter**, type in **ipconfig** at the prompt, and press **Enter**.
- 9. Select **Use the following IP address** and then enter the following for the IP address, Subnet mask, and Gateway.
  - IP address-192.168.2.x (where x is a number between 2 and 255)
  - Subnet mask-255.255.255.0
  - Gateway–Leave empty or unchanged (or if that does not work, use 192.168.2.\*\*\*, where the last digits are different than the IP address in the computer or KMC Commander)
- 10. When all information is correct, click **OK** and **OK**.
- **NOTE:** The changes should take full effect after a few seconds.

#### Windows 7 (Control Panel)

- 1. Click the Start button and select Control Panel.
- 2. From the Control Panel:
  - (When viewed by icons) click Network and Sharing Center.
  - (When viewed by category) click Network and Internet and then Network and Sharing Center.

			6	⊖ v 🐼 ► Control Panel ►	<ul> <li>✓ 4y Search Control Panel</li> </ul>
				Adjust your computer's settings	View by: Category 💌
Adjust your computer's settings	trol Panel Items 🕨	General Control Panel      View by: Large Kons *	ρ 	System and Security Review your computer's status fact up you computer find and fit problems (Network status and therenet choose homegroup and status) choose homegroup and status geptions:	User Accounts Change account type Appearance and Personalization Change the theme Change de theme Chang
Action Center	Administrative Tools	AutoPlay		Hardware and Sound View devices and printers Add a device Programs	Clock, Language, and Region Change keybeards of ther input methods Ease of Access Let Windows suggest settings
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Device Manager	<ul><li>Devices and Printers</li><li>Flash Player (32-bit)</li></ul>	Siplay.		Add a wireless device to the network     Add a wireless device to the network	o a network View network computers and devices
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≫ Keyboard ⑦ Mouse	Location and Other Sensors Network and Sharing Center	Mail (32-bit)		Clock, Language, and Region Ease of Access	
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Broadcom NetXtreme 57	ox Gigabit Co	introller		
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s connection uses the follow	ing items:			
🖳 🕂 Client for Microsoft Net	works			
QoS Packet Schedule	r.			
🛛 🚚 File and Printer Sharing	for Microso	ft Networks		
- Internet Protocol Versi	on 6 (TCP/IF	Pv6)		
🛛 📥 Internet Protocol Versi		<sup>o</sup> v4)		
Link-Layer Topology D	iscovery Ma	pper I/O	ver	
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Instal	inistal	Pro	oerties	٦
	III ISLAII	110	penes	J
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eneral	
You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.	tomatically if your network supports to ask your network administrator
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O Use the following IP address:	
IP address:	192.168.1.10
Subnet mask:	255.255.255.0
Default gateway:	2 34 3
Obtain DNS server address aut	omatically
Use the following DNS server a	ddresses:
Preferred DNS server:	
Alternate DNS server:	6 00 0
Validate settings upon exit	Advanced
	OK Cancel

- 3. Click the local connection for the LAN.
- **NOTE:** Depending on the computer and exact version of Windows, the exact name for the connection may be Ethernet, Local Area Connection, or something similar.
- 4. In the Local Area Connection (or similar) Status dialog, click Properties.
- 5. Click Internet Protocol Version 4 (TCP/IPv4) and then Properties.
- NOTE: Record the EXISTING Properties settings!
- **NOTE:** If **Obtain an IP address automatically** is selected, the IP address and Subnet mask of the computer are not shown. They can be seen, however, by running ipconfig from a command prompt. To run ipconfig, click the **Start** button, type **cmd** in the Search box, press **Enter**, type in **ipconfig** at the prompt, and press **Enter**.
- 6. In the Properties dialog, select **Use the following IP address** and then enter the following for the IP address, Subnet mask, and Gateway.
  - IP address-192.168.2.x (where x is a number between 2 and 255)
  - Subnet mask-255.255.255.0
  - Gateway–Leave empty or unchanged (or if that does not work, use 192.168.2.\*\*\*, where the last digits are different than the IP address in the computer or KMC Commander)
- 7. When all information is correct, click **OK** and **Close**.
- **NOTE:** The changes should take full effect after a few seconds.

### **KMC** Commander Configuration

After the connection with 192.168.2.1 is established, configure the settings as needed.

**NOTE:** For additional instructions, see the **KMC Commander Installation Guide** on the KMC web site.

If Port 2 is not needed for discovering devices, leaving it at the default settings allows it to remain as a "back door" for use if there is a failure in the normal communications port.

After configuration of the KMC Commander is complete, disconnect the Ethernet patch cable to Port 2, and change the computer back to its original IP settings.

¥	Ethernet 2 [eth1]	
	Disabled The Enabled IP Address 192.168.2.1	DHCP Static Subnet Mask 255.255.255.0
	Default Gateway	
	DNS 1	DNS 2
		Whitelist/Blacklist Network Area Type

### **Important Notices**

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### **Support Documents**

The **KMC Commander** support documents are available on the KMC Controls web site (www.kmccontrols.com). Viewing all available files requires logging in to the site.

For video tutorials on KMC Commander and other products, see also the videos on **KMC's YouTube channel**.

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