



Modbus TCP/IP server 8 channels isolated in pairs for mA input

User Guide – MODBUS TCP/IP protocol Firmware Version : 8610

DAT 8017-I

PRELIMINARY DESCRIPTION

All of the data shared by a device communicating by Modbus TCP/IP protocol are mapped in tables, at each data is associated a proper address. Each data can be of two types:

- "REGISTER", data of 2 bytes size (word of 16 bits) that can be associated to analogue input or output, variables, set-point, etc...

- "COIL", data of 1 single bit that can be associated to digital input or output or to a logic state.

A register could contain the image (mirror) of more coils; in example the 16 digital inputs of a device could be read or written as bit (singularly) addressing the coil related to each input or can be read or written as a single word addressing the associated register wherein each bit corresponds to a coil.

In the Modbus protocol, registers and coils are divided as per the following groups of addresses:

0xxxx and 1xxxx = Coils (bit)

3xxxx and 4xxxx = Registers (word)

When reading functions are performed, use the tables indicated below to address the registers

It is possible to access to the internal registers of the device by direct command Modbus TCP/IP or by the integrated web server.

Register	Description	Access
40002	Firmware [0]	RO
40003	Firmware [1]	RO
40004	-Reserved-	RO
40005	-Reserved-	RO
40007	Node ID	R/W
40011	System Flags	R/W
40013	Watchdog timer	R/W
40031	Input type Ch (1-0)	R/W
40032	Input type Ch (3-2)	R/W
40033	Input type Ch (5-4)	R/W
40034	Input type Ch (7-6)	R/W
40041	Analog Input (0) - Ch0	RO
40042	Analog Input (1) - Ch1	RO
40043	Analog Input (2) - Ch2	RO
40044	Analog Input (3) - Ch3	RO
40045	Analog Input (4) - Ch4	RO
40046	Analog Input (5) - Ch5	RO
40047	Analog Input (6) - Ch6	RO
40048	Analog Input (7) - Ch7	RO

REGISTERS TABLE

COILS TABLE

Coil (Hex)	Coil (Dec)	Descrizione	Accesso
0x00A1	00161	Watch-dog Enable	R/W
0x00A2	00162	Watch-dog Event	R/W
0x00A3	00163	Power-Up Event	R/W

SUPPORTED MODBUS FUNCTION CODES

Function	Description
01	Read Coil Status (0xxxx)
02	Read Inputs Status (1xxxx)
03	Read Holding Registers (4xxxx)
04	Read Inputs Registers (3xxxx)
05	Force Single Coil
06	Preset Single Register
15 (0F)	Force Multiple Coil
16 (10)	Preset Multiple Registers

NOTES:

Registers and coils marked as RO in the column 'Access' are Read Only registers.

Registers and coils marked as R/W in the column 'Access' are Read and Write registers.

For the devices of DAT8000 series, the group of data 0xxxx is the mirror of the group 1xxxx, the group of data 3xxxx is the mirror of the group 4xxxx, therefore the first register could be addressed either as 30002 (with function 04) or 40002 (with function 03).

The maximum number of coils that can be read through Modbus functions 01 and 02 (see "Supported modbus functions codes") are: The maximum number of registers that can be read through Modbus functions 03 and 04 (see "Supported modbus functions codes") are: The maximum number of registers that can be written by Modbus function 16 (see "Supported modbus functions codes") are: The maximum number of coils that can be written by Modbus function 15 (see "Supported modbus functions codes") are:

DESCRIPTION MODBUS REGISTERS

40002 / 40003 : FIRMWARE

Two read-only registers, containing the firmware version.

40007 : NODE ID

Contains the MODBUS address of the device; the values allowed are from 1 to 245 decimal.

This data is necessary for the correct addressing of the device into the Modbus net and must follow the IP address.

-Default value: 1 Decimal (01 Hex). INIT value: 245 Decimal (F5 Hex).

40011 : SYSTEM FLAGS

Contains the enable bits and system events of the device. The following parameters are configurable:

Watchdog Event Enable: this bit enables the Watchdog Event (0 = Watchdog disabled, 1 = Watchdog enabled). If this bit is active and the device doesn't receive commands for the time specified in the register 40013 "Watchdog timer", the PWR green led blinks. If this function is required must be implemented at the power-on of the device. This bit must be set in logic on power up.

Watchdog Event: if this bit is set as 1 indicates that the Watchdog condition has happened (0 = Normal condition; 1 = alarm condition)

PowerUp Event: this bit is forced to 1 at each power on and indicates that the device has been switched off or reset. With the setting of this bit as 0 and checking its state, it is possible to know if a reset of the device has occurred (0 = reset not occurred; 1 = reset occurred). This bit must be reset manually.

Bit	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Coil	-	-	-	-	-	163	162	161	-	-	-	-	-	-	-	-
Descr.									. Wa		og Ev tchdo wer-up	g Eve	nt	g		

40013 : WATCHDOG TIMER

Contains the value of the Watchdog timer, in seconds. If the Watchdog is enabled and the device doesn't receive a command before this timer expires, the Watchdog bit will be set to 1 (see the description of "System Flags"). - Default value: 10 (10 sec.)

40031: INPUT TYPE Ch (1-0)

<u>40031: INPUT TYPE Ch (1-0)</u> This register shows the input type that is configured (refer <i>"Table Input Type"</i> beside).	TABLE I	NPUT TYPE	-
This register shows the input type that is configured (reference input rype beside).			
To disable the input write 0 on the part related to the input desidered.	Input	Value	Value
In this device is possible to configure only Current input (mA) or disable it.		(Hex)	(Dec)
- Default: mA (0303 Hex)	Disabled	00h	0
	mA	03h	3

Bit	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Descr.			In	put ty	/pe #	¹ 1					In	put ty	/pe #	0		

40032: INPUT TYPE Ch (3-2)

This register shows the input type that is configured (refer "Table Input Type" beside). To disable the input write 0 on the part related to the input desidered. In this device is possible to configure only Current input (mA) or disable it. - Default: mA (0303 Hex)

Bit	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Descr.			In	put ty	/pe #	3					In	put ty	/pe #	2		

TABLE INPUT TYPE

TABLE INPUT TYPE

Value

(Hex)

00h

03h

Value

(Dec)

0

3

Input

Disabled

mΑ

Input	Value	Value
	(Hex)	(Dec)
Disabled	00h	0
mA	03h	3

40033: INPUT TYPE Ch (5-4)

This register shows the input type that is configured (refer "Table Input Type" beside). To disable the input write 0 on the part related to the input desidered. In this device is possible to configure only Current input (mA) or disable it. - Default: mA (0303 Hex)

Bit	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Descr.			In	put ty	, ype #	5					In	put ty	,pe #	4		

40034: INPUT TYPE Ch (7-6)

This register shows the input type that is configured (refer "Table Input Type" beside). To disable the input write 0 on the part related to the input desidered.

In this device is possible to configure only Current input (mA) or disable it.

- Default: mA (0303 Hex)

Bit	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Descr.			In	put ty	/pe #	7					In	put ty	/pe #	¹ 6		

TABLE INPUT TYPE

Input	Value	Value
	(Hex)	(Dec)
Disabled	00h	0
mA	03h	3



These registers return the measure of each channel, converted to engineering units: The values read in these registers are expressed in uA.

Example of reading:

• The input is set in mA Value read in the register: 19921 \rightarrow 19,921 mA

The register format is a 16 bit unsigned integer.

Note: in INIT condition, the analogue input measurements are not updated!

WEB SERVER STRUCTURE

To access the server, run the web browser and edit in the *address bar* the device IP address (default IP address: 192.168.1.100).

It will appear the following window. Depending on the Web browser used some icons and/or writings may have little variation of shape and colour. The web browser supported are: *Chrome, Firefox, Opera, Internet Explorer, Edge* and *Safari*.

If necessary, it is possible to connect to the *Datexel web site* to download the data-sheet and the user guide of the device in use clicking on the button "www.datexel.it" in the bottom part of the window.

En	ter Username and Passwo	ord then press LOGIN		
	Usemame			
	Password			
	LOGI	N		
	Ēr	Usemame	Usemame	Password

Write Username and Password. If the default settings are in use the parameters to access are:

Username: Fact_user

Password: Fact_pwd

Click on the button Login to access to the Home page of the device; it will appear as follows.

In all the web pages, on the top part of the window there are the buttons:

"Page Back" to go back to the page previously visualized; "Home" to return to the main page; "Logout" to quit and get back to the Login page.

ENGLISH Y OK	

To access the page "*Main Menu*" of the device, select the language by the combobox and click the button "*OK*". The following window will appear.

	ain Menu	
IVI	an weru	
Net	work settings	
System	m Configuration	
Sof	tware Update	
Usema	me and Password	
A	nalog Input	
A	nalog input	

By this page it is possible to access the internal parameters of configuration of the device. If the mouse pointer is moved on the button related to a specific menu, it will appear a green tool tip that will help the user with the selection of menus that are the following:

Network Settings: allows to set the Ethernet communication parameters. **System Configuration:** allows to set the system configuration parameters.

Software Update: allows to execute, if necessary a software update.

Username and Password: allows to set the access data used in the Login page.

Analog Input: allows to visualize the value of the analog inputs and if necessary to disable one or more .

In the next sections there is the description of the menus.

	Network Settings
	Via Monte Nero, 40/b - TRADATE (Varese) - ITALY Tel. +39 0331.841.070 - Fax +39 0331.841.950 datexel@datexel.it
Network settings	Back Home DAT8017-I Logout
	Network settings
Enverse of part Presson	
	Enter the new network parameters and press SAVE
	IP Address: 192 168 1 108 192.168.1.108
Visit our website:	Subnet Mask: 255 255 0 255.255.0
	Gateway Mask 192 168 1 1 192.168.1.1
	Socket Timeout: 10 min
	Save
	Visit our website: www.datexei.it

IP Address: allows to visualize and set the unique IP address of the device in the network in use.

Subnet Mask: allows to set the parameter of the Subnet Mask in order to determine the local network of the device.

Gateway Mask: allows to set the parameter of Gateway Mask for the correct addressing of the device.

Socket Timeout: when there is no data transmission, this parameter indicates the time that must elapse before Modbus TCP sockets (port 502) are closed.

Click "Save" to apply and store the modified parameters. Wait for the reset of the device and access to it via the new parameters set.

- East 1	100	DAT8017-I	C. Capital
		lain Menu	
	-	10011100p	
	Syste	en Configuration	d Brych hann, public brack Digital Trivel (Frent)
	100	Trans dormer	
	E-m	ner and Francost	
	Contract of Contra	hard (set	

System Configuration

Back	00	Home		DAT8017-I	Logou
			System Con	figuration	
	Na	me DA	F8017I		
	Modbus	Address: 1			
	MAC A	ddress: D8:	80:39:B9:2C:01		
	WatchDo	g Enable		TimeOut: 10	(max 255 s)
	WatchDe	og Event			
	PowerU	lp Event	1		
					Refre
					Save

Name: allows to visualize and set the parameter NetBios Name of the device; this parameter, composed by <u>max 15 alphanumeric characters</u>, is visualized beside the IP address in the software "Search Device"; it can also be used in the software that implement the use of this data.

Modbus Address: allows to visualize the modbus address of the device; this parameter is forced to 245 in INIT condition. **Watchdog Enable** (ref. Reg "System Flags"): this flag allows to enable the Watchdog event (0 = WatchDog disabled, 1 = WatchDog enabled).

Timeout (ref. Reg "WatchDog timer"): allows to set the value, expressed as step of 1 second, of the WatchDog timer .

Watchdog Event (ref. Reg "System Flags"): this flag is used to signal that the Watchdog condition is happened (0 = Normal condition; 1 = Alarm condition).

Power-up Event (ref. Reg "System Flags"): this flag is forced to 1 at each power-on and indicates that the device has been switched-off or a reset has occurred. (0 = reset not happened; 1 = reset happened).

Click "Save" to apply and store the modified parameters. To read the parameters from the device click the button "Refresh".

Software Update

Vis Monte Nero, 405 - TRADATE (Vineso) - ITALY TurPh: -90 0331.841 070 - Fax -30 0331 541.050 dissertigibatives (* Main: Menul Main: Menul			o - TRADATE (Varese) - ITALY 1.070 - Fax +39 0331.841.950 xel@datexel.it
Récedit annu (s	Back Y Hon	DAT8017-I	Logout
Extern Congression		Software Update	
Control of an U.S. Control of a	Username	te the system software press UPGRADE, enter yo and Password, then select the appropriate file fro local folder. turn the power off to the device during the upgrad process!	om a
This section allows to update the versions of the irmware or web server and is used in case of necessity. To execute the update click on the button " <i>Upgrade</i> "; the system will open a pop-up vindow where to insert the credentials to proceed		I Firmware: Ver. 8.6.1.0 age Version: 301019	D

Visit our website

window where to insert the credentials to proceed with the update. Contact the Technical Assistance service for information about the procedure to follow. The parameter "Actual Firmware" shows the

The parameter "Actual Firmware" shows the firmware version loaded on the device.

The parameter "*WebPage Version*" shows the version of the web-based user interface loaded on the device.

www.datexel.it)



Via Monte Nero, 40/b - TRADATE (Varese) - ITALY Tel. +39 0331.841.070 - Fax +39 0331.841.950 (Δ datexel@datexel.it COMPONENTS FOR ELECTRONICS INDUSTRIAL AND PROCESS CONTROL Back DAT8017-I Username and P and ne: Fact user Us P rd: Fact_pwd Visit our website: www.datexel.it

This section allows to set user name and password to access to the Webserver of the device. Username: allows to set and visualize the user name of the device. Default "Fact user". **Password**: allows to set and visualize the password of the device. Default "*Fact_pwd*". Click "Save" to apply and store the modified parameters.



Analog Input

Username and Password

Back	Home			T8017-I		Logou
		Analog I	nput			
		Input Ty	pe	Value		
	Analog In 0:	20mA		0		
	Analog in 1:		•	0		
	Analog In 2:	20mA	•	0		
	Analog in 3:	20mA	•	0		
	Analog in 4:	20mA	•	0.001		
	Analog in 5:	20mA	•	0.001		
	Analog in 6:	20mA	•	0.001		
	Analog In 7:	20mA	•	D		
				Read	_	Save

This section allows to visualize the value of the analog inputs expressed in mA. Each input can be disabled selecting "Disabled" from the combobox under the column "Input Type".

Clicking the button "Read" it updates the value read from the device and so each field under the column "Value"

Input Type (ref. Reg "Input Type") : allows to enable or disable the Current input. Value (ref. Reg "Analog Input"): shows the value contained in the register associated to the analog input.

Click "Save" to apply and store the modified parameters.

PROCEDURES

USE OF THE FUNCTION "INIT"

All of the devices of DAT8000 series are equipped with the INIT modality. This is a procedure to access to the device if the network parameters are unknown. In this case it is possible to set the new network parameters in order to access the device using a browser and to proceed with its configuration.

<u>IP Address:</u> XXX.XXX.XXX.XXX (assigned by DHCP if enabled)

192.168.1.174 (if DHCP disabled, verify that the IP is not in use)

Modbus address: 245

By these information it is possible to access the device in INIT modality to set and check its configuration.

- To work in INIT follow the procedure:
- Switch-off the device;
- Connect the terminal INIT to terminal -V as shown in the technical datasheet of the device;
- Power-on the device;
- Install and run the software "Search Device";
- By the software, search the device on the network and connect to it (refer to the software User Guide);
- Set the new network parameters;
- When the user finishes to work in INIT:
- Switch-off the device;
- Disconnect INIT connection;
- Power-on the device and connect to it by the new parameters configurated using a browser;

Note: if the DHCP is disabled and the device is in INIT mode, the IP address is 192.168.1.174. In order to connect to the device, the PC and the device must be in the same network.

Note: in INIT condition, the analogue input measurements are not updated!

WATCHDOG

The devices of the DAT8000 series are equipped with the Watchdog timer. When enabled, if there is not communication between the device and the master for such time, the system actives an alarm condition in order to guarantee the safety condition. During this alarm condition the green led PWR on the front of the device blinks and the coil "Watchdog Event" is forced to 1. To exit from the alarm condition, send any command to the device and reset the coil "Watchdog Event".

Note: when the device is switched off, the bit "Watchdog Enable" is forced to 0. In order to have the "Watchdog" enabled, it is recommend to set the bit "Watchdog Enable" by the master unit at every power on.

FUNCTION BUTTON "P"

In case it is necessary to set the default parameters of the device, with device powered and not in INIT condition, push the button "P" located on the front for at least 5 seconds.

The green led PWR will switch-off, the yellow led STS will become orange and the reset of the device will occur.

When the reset procedure is finished, both the leds will be set back to the default condition and the following parameters will be loaded:

<i>Ethernet:</i> - IP Address: 192.168.1.100 - Subnet Mask: 255.255.255.0 - Gateway Mask: 192.168.1.1	Login: - Username: Fact_user - Password: Fact_pwd		<i>Modbus:</i> Address: 1	
SEAF	RCH A DEVICE AND EDIT NETWOR USING "SEARCH DEVICE" SOF		METERS	
The devices of DAT8000 series are provided 192.168.1.100, modbus address 1. The PC could work with multiple subnets. In order to connect with the device, the PC series must be in the same network.(*) It is possible to visualize the PC's IP address Device" clicking the button "Get Local IP" (P	Fict. <u>C and the device of DAT8000</u> running the software "Search	Port TCP/IP Get lo		K 60.1.163
 Select the correct network (if present in the 2) Click on "Search" button to search device After searching, the IP address of the devi <u>Make sure that the IP identified is used</u> <u>connected to.</u> Select the IP, click the right mouse button After connecting to the device, all the network configuration window. 	in the selected network. ce will appear followed by the NetBios Name. in the network which the device is and choose "Connect / Set Device".	Pict. 2	Internet Protocol version 4 (TCP/IP	2v4) Properties X
Note: after changing the IP address of the Daresults in the "Search Device". It will be nece again to display the device again in the search (*) If the PC belongs to a different subnet from the necessary to change the IP of the Personal	ssary to change the PC network parameters the results.		General You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings. Obtain an IP address automati © Use the following IP address: IP address:	l to ask your network administrator
is necessary to change the IP of the Persona To do this, open the <i>"Network and Sharing C</i> go to the IPV4 network properties window of parameters compatible with the default IP of <i>Windows configurations"</i>). After having appropriately changed the IP of IP of the device.	<i>enter</i> ["] section of the operating system in use, the PC (Pict. 2) and configure the network the device (see section <i>"Examples for</i>		Subnet mask: Default gateway: Obtain DNS server address aut Out the following DNS server a Preferred DNS server: Alternate DNS server:	255 . 255 . 255 . 0 192 . 168 . 1 . 1 tomatically
Factory/Default parameters: IP Address: 192.168.1.100 Modbus address: 1 Subnet Mask: 255.255.255.0 Gateway Mask: 192.168.1.1			Validate settings upon exit	Advanced

It is possible to set only the IP address (but not the other network parameters) from the "Search Device" software by following the procedure:

1) Select the correct network (if present in the list) and click on "Bind".

- 2) Click on the "Search" button to search for the device in the selected network.
- 3) After searching, the IP address of the device will appear followed by the NetBios Name.
- Make sure that the IP identified is used in the network which the device is connected to.
- 4) Select the IP, click the right mouse button and select "Set IP address" (Pict. 3a).
- 5) Set the new IP address and press OK (Pict. 3b)

Pict. 3a	Search		×	Pict. 3b	Search				×
	Port Timeout TCP/IP 1000 mSec Get local IP 192.168.1.163 Search Mask 192.168.1.255	Search	Retum Connect/Set Device View HomePage Set IP address		192.168.1	192.168.1.163	Search	Retum	

ADDITIONAL COMMANDS TO IDENTIFY THE NETWORK IN USE

The following additional commands can be used to identify which network the PC is connected to. To use the following commands, run the Command Prompt (cmd.exe) as Administrator (Pict.1).

"lpconfig" command

It is possible to display the networks available on the PC by typing this command and pressing Enter. The system will return a list of all the PC networks (Pict.2). Before trying to establish communication with the device, the user must be sure that he is in the correct subnet.

"Ping" command

To verify if a device is connected to the network, you can use the "ping" command which is an administration utility for computer networks used to measure the time expressed in milliseconds, used by one or more packets to reach a network device and return origin. To use the command type the command "ping" followed by the IP address of the device and press Enter. Example:

ping 192.168.1.100

If the device is connected, the system will return the response from the device with the IP address used (Pict.3). If the system returns the "Destination host unreacheble" message, the device is not connected to the network in use. In this case, it is suggested to check the assignment of the network parameters.

Pict. 1 Pict. 2 Administrator: Command Prompt X All Documents More Microsoft Windows [Version 10.0.18362.418] (c) 2019 Microsoft Corporation. All rights reserved. Best match :\WINDOWS\system32>ipconfig Command Prompt vindows IP Configuration App G Run as administrator thernet adapter Ethernet: Apps 다 Run as different use Connection-specific DNS Suffix . Link-local IPv6 Address IPv4 Address Subnet Mask Default Gateway Node.js command prompt : fe80::9c67:4c59:b502:f8c7%7 : 192.168.1.163 : 255.255.255.0 : 192.168.1.1 D Open file location Prompt dei comandi degli strume
Pin to Start Prompt dei comandi degli strumt
 Pin to taskbar
 ARM di VS2015 x86
 \WINDOWS\system32> -U Run Run Search the web D Ope 5 9 cmd - See web results -II Pin Settings (1) Ha Pin

Pict. 3

📾 Administrator: Command Prompt	_	\times
C:\WINDOWS\system32>ping 192.168.1.100		^
Pinging 192.168.1.100 with 32 bytes of data:		
Reply from 192.168.1.100: bytes=32 time<1ms TTL=100		
Reply from 192.168.1.100: bytes=32 time=1ms TTL=100		
Reply from 192.168.1.100: bytes=32 time=1ms TTL=100		
Reply from 192.168.1.100: bytes=32 time=1ms TTL=100		
Ping statistics for 192.168.1.100:		
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),		
Approximate round trip times in milli-seconds:		
Minimum = 0ms, Maximum = 1ms, Average = 0ms		
C:\WINDOWS\system32>ping 192.168.1.123		
Pinging 192.168.1.123 with 32 bytes of data: Reply from 192.168.1.163: Destination host unreachable.		
Reply from 192.168.1.163: Destination host unreachable.		
Reply from 192.168.1.163: Destination host unreachable.		
Reply from 192.168.1.163: Destination host unreachable.		
Ping statistics for 192.168.1.123:		
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),		
C:\WINDOWS\system32>		~

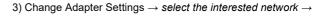
EXAMPLE TO CHECK WINDOWS ® CONFIGURATION

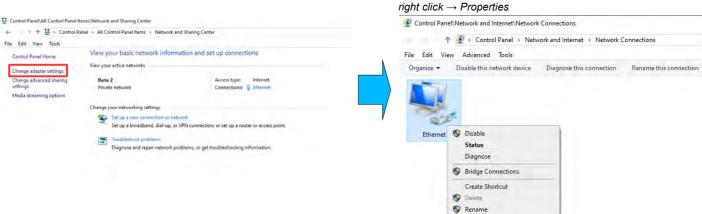
How to change the IP address of the PC (each version of the operative system could change in part from others)

1) Access to Control Panel → *Network and Sharing Center*

Cont	trol Panel All Control Panel Items						- 0	×
	🛧 🛄 > Control Panel > A	Il Control P	Panel Items				♥ Q. Search Control Panel	p
File Ec	dit View Tools							
Adjus	st your computer's settings						View by: Large icons *	
1	Administrative Tools		AutoPlay	*	Backup and Restore (Windows 7)	32	Color Management	
0	Credential Manager	TP?	Date and Time		Default Programs	ਗ	Device Manager	
-	Devices and Printers	•	DTS Audio Control Panel	٢	Ease of Access Center	100	File Explorer Options	
e	File History	۶	Flash Player (32-bit)	A	Fonts	æ	Indexing Options	
e	Internet Options	0	lObit Uninstaller	1	Java	~	Keyboard	
0	Mouse	-	Network and Sharing Center	3	Phone and Modern	1	Power Options	
a	Programs and Features		Recovery	0	Region	1	RemoteApp and Desktop Connections	
p	Security and Maintenance)	Sound	8	Speech Recognition	Ē	Storage Spaces	
0	Sync Center		System	2	Taskbar and Navigation		Troubleshooting	
92	User Accounts	-	Windows Defender		Work Folders			

2) Network and Sharing Center \rightarrow Change Adapter Settings





4) Properties \rightarrow Internet Protocol version 4 \rightarrow Properties

	Ethernet Properties ×
	Networking
	Connect using:
	🚍 Realtek PCIe GBE Family Controller
	Configure
	This connection uses the following items:
	Client for Microsoft Networks
	 File and Printer Sharing for Microsoft Networks QoS Packet Scheduler
	✓ Internet Protocol Version 4 (TCP/IPv4)
	L Microsoft Network Adapter Multiplexor Protocol
_	Microsoft LLDP Protocol Driver
	✓ Internet Protocol Version 6 (TCP/IPv6)
	< >>
	Install Uninstall Properties
	Description
	Transmission Control Protocol/Internet Protocol. The default
	wide area network protocol that provides communication across diverse interconnected networks
	OK Cancel
ļ	

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Ouse the following IP address: 192 . 168 . 1 . 120 IP address: 255.255.255.0 Subnet mask: Default gateway: 192.168.1.1 Obtain DNS server address automatically • Use the following DNS server addresses: Preferred DNS server: Γ 8.8.8.8 8.8.4.4 Alternate DNS server: Validate settings upon exit Advanced... OK Cancel

💡 Properties

General

Internet Protocol version 4 (TCP/IPv4) Properties

5) Change parameters and click OK.

×