



TCP/IP INTERFACE ATC-1000

1. Connect ATC-1000 (TCP/IP to RS232/422/485 Converter) to PC with Ethernet cable RJ45:



- Connect power supply: ATC-1000 TCP/IP converter can adopt power from DC power supply or device (+9÷+24V@500-100mA).
- 3. Open your web browser and type http://192.168.2.1 in the browser's *address box*. This address is the factory set IP Address of your ATC-1000. Press "Enter". Note:

To be able realize this connection PC must have settled static IP address from range 192.168.2.2 to 192.168.2.254. Network card can be set as follows:

	Internet Protocol Version 4 (TCP/IPv4) Properties
etworking	Ground
Connect using:	General
Intel(R) Ethemet Connection I217-LM	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.
Configure	
This connection uses the following items:	Obtain an IP address automatically
Client for Microsoft Networks	Use the following IP address:
File and Printer Sharing for Microsoft Networks	IP address: 192.168.2.2
✓ Scheduler ✓ Internet Protocol Version 4 (TCP/IPv4)	Subnet mask: 255 . 255 . 255 . 0
Microsoft Network Adapter Multiplexor Protocol	Default gateway:
Internet Protocol Version 6 (TCP/IPv6)	Obtain DNS server address automatically
	Use the following DNS server addresses:
Install Uninstall Properties	Preferred DNS server:
Description	Alternate DNS cerver:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	
across diverse interconnected networks.	Validate settings upon exit Advanced
OK Consol	01/ 01/11

Now PC has fixed IP address 192.168.2.2 from range necessary range, configurable connection http://192.168.2.1 should be possible to realize:

http://192.168.2.1 × +	
(i) ≤ http://192.168.2.1	
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	USER LOG IN
	Site: http://192.168.2.1

ID: Password:

OK

The Users can change the username and password to prevent unauthorized access. Login ID and password authentication, the maximum is 15 characters and numbers.

User Name: default **admin** Password: default **system**

1. IP Configuration

The ATC-1000 support three IP connection types: Static IP, DHCP. These types are listed in the Web page for the IP Configuration setting. Each setup screen and available features will differ depending on what kind of IP connection types you select. Default is Static IP. New settings should be save it because after changes communication with ATC will be only possible using new IP address.

Example below:

IP Setting	
IP Address	192 . 168 . 10 . 231
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 10 . 1
IP Configure	● Static ○ DHCP

Administrator Setting
TCP Mode
UDP Mode
UART
Reset Device

Administrator Setting

Kernel Version		V1.44.3.4 2015/0	6/29
MAC Address		00:11:22:4D:5E:2	D
Nickname		NetUART	
IP Setting			
IP Address		192 . 168 . 10	. 231
Subnet Mask		255 . 255 . 255	.0
Gateway		192 . 168 . 10	.1
IP Configure		● Static ○DHC	P
Password Setting			
Username		admin	max:15
Password		•••••	max:15
Confirm		•••••]
	Update		
Load Default Setting to EEPROM		Load	

Nickname only can use "0-9", "a-z", "A-Z", "_", "-"

Save settings - click "Update".

5. TCP Settings

Communication rules are: client (master) it sent commands and server (slave) will realize it.

If ATC-1000 will be installed near the distance of control system and used for remote control then you can set ATC-1000 as server.

Be sure the value of item **Port Number** is same as your remote control application using. **Port Number:** default 23, range 0 to 65535.

Administrator Setting TCP Mode UDP Mode UART Reset Device

Item	Value
Telnet Server/Client	●Server ○Client ○Disable
Port Number	23
Remote Server IP Address	210 ,200 ,181 ,102
Client mode inactive timeout	20 minute (1-99,0=Disable)
Server mode protect timeout	60 minute (1-98,0=Disable,99=Can't replace)
	Update

Save settings – click "Update".

6. UART Settings (control by RS-232)

In this window we set information about communication settings with serial port. The ATC-1000 support three serial types: RS232, RS422 and RS485, The user can reference hardware diagram to directly select RS232, RS422, RS485, no need select by software.

Administrator Setting TCP Mode UDP Mode	UART Control		
<u>UART</u> Reset Device			
	Item		Setting
	Mode		RS232 ~
	Baudrate		19200 ~
	Character Bits		8 ~
	Parity Type		none 🗸
	Stop Bit		1 ~
	Hardware Flow Control		none ~
		Character 1:00 , Character 2: FF	
	Delimiter	□ Silent time: 5 (1~255)*50ms	
		Drop Character	
		⊠ Multi-Packet	
		Update	

Save settings - click "Update".

7. Test

Disconnect RJ45 cable from PC and connect it to your local network.



Download free software which is available for free download on below link:

http://www.hw-group.com/products/hercules/index_en.html

Sample show how ATC-1000 is configure in network to work with control system MCS-N-IP:



7. Specifications:

Serial Interface			
Interface Type	RS-232/485/422 3 in 1 (optional)		
Data Rate	300bps ~ 230.4Kbps		
Data Length		5,6,7,8 bits	
Parity		Odd, Even, None, Space, Mark	
Stop Bits	1,1.5,2 bits		
Flow Control	None, Software: Xon/Xoff, Hardware: RTS/CTS		
Ormerter	RS-232	DB-9 male	
Connector	RS-485/422	6-pin Terminal block	
Serial Line Protection	600W for RS-232,1000W for RS-485/422		
Network Interface			
Interface Type		Ethernet 10/100Mbps (Auto-Sensing)	
Connector		8-pin RJ-45	
Magnetic Isolation Protection	Built-in 1.5KV		
Software	e Second		
Network Protocols	IS ICMP.IP,TCP,UDP,DHCP,BOOTP,Telnet,DNS,HTTP,ARP		
Configure Options	Web Page Windows Utility		
OS support	Windows95/98/ME/NT/2000/XP/2003/WIN7/WIN8/XP x64/2003 x64/WIN7 x64/WIN8 x64、 Linux real、TTY、UNIX		
LED Indicators	LINK	10/100Base-TX Link & Activity Indicator	
	ACT	Date Transmitting between Serial and Ethernet	
	PWR	Power indicator	
Power Supply	9~32VDC@1A		
Physical Characteris	tics		
Installation		DIN-Rail Mounting	
Housing	Iron (1mm)		
Weight	0.5Kg		
	Without ears 100 × 67 × 26 mm(3 94 × 2 64 × 1 02 in)		
Dimensions	With ears	100 × 86 × 26 mm(3.94 × 3.39 × 1.02 in)	
Environmental Limit	s		
Operating Temperature	-25 ~ 70°C (-13 ~ 158°F)		
Storage Temperature	.40 ~ 85°C (.40 ~ 176°F)		
Ambient Relative Humidi	ity	ty 5% to 95%(non-condensing)	
Standards and Certif	fications		
		RoHS, CE, FCC	

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