

User Manual FT205L

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Introduction

1.1 Overview

FT205L series routing provides one RS232 or RS485 serial port, four 100 million Ethernet LAN, one 100 million Ethernet WAN port to connect serial devices, Ethernet devices enabling transparent data transmission and routing functions.

The product has the advantages of rapid deployment and easy management, advanced software features and a fully industrial hardware design platform, enabling enterprises to quickly build large-scale industrial equipment networks with minimal investment, providing multi-service services including data, voice and video. Especially suitable for large-scale machine networking, such as self-help selling machine, bank ATM, multimedia advertising equipment, industrial automation equipment, intelligent medical equipment, robots, field machinery, oil and gas exploration equipment, digital production equipment and other machine networking and information construction, its excellent hardware performance, easy to deploy and perfect remote management function .

1.2 Features

Industrial-grade application design

- > Adopt the industrial communication module
- > With a high-performance 32-bit communication processor
- Support low power mode, including sleep mode, timing up and down mode and timing switch mode (special version only)
- With metal case, protection class IP30. The metal shell and the system are safely isolated, especially suitable for industrial control field applications
- Design of wide voltage input: 9~36V

Stable and reliable

- > Double watchdog design to ensure the stability of the system
- Adopt a complete anti-drop mechanism to ensure that the data terminal is always online.
- > The Ethernet interface is built-in 1.5KV electromagnetic isolation protection
- > The RS232 / RS485 interface has a built-in 1.5KV ESD protection
- > The SIM / UIM interface has a built-in 1.5KV ESD protection
- > Power-interface built-in reverse voltage protection and overvoltage protection
- Lightning protection of antenna interface (optional)

Standard easy to use

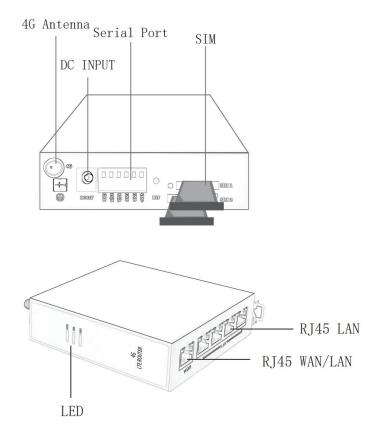
- Standard RS232 / RS485, Ethernet interfaces are provided, connecting directly to serial port devices, Ethernet devices devices
- Provide standard limited WAN port (supporting standard PPPOE protocol) to connect to ADSL devices directly
- > Intelligent data terminal, power on can enter the data transmission state
- Provide powerful central management software to facilitate equipment management (optional)
- Easy to use, flexible, a variety of working mode selection
- Convenient system configuration and maintenance interface (including local, remote WEB and platform management)

powerful

- Various WAN connection modes are supported, including static IP, DHCP, L 2 TP, PPTP, PPP OE, 3G / HSPA / 4G.
- Support for mobile network and wired WAN dual-link intelligent switching backup function (optional)
- Support for VPN client (PPTP / L 2 TP / IPSEC / GRE)
- Support for remote management, SYSLOG / SNMP / TELNET / HTTP and other functions
- > Support for local and remote online upgrades, and import and export profiles
- support NTP
- Support for the APN / VPDN
- Support multi-channel DHCP Server and DHCP Client, DHCP bundled MAC address,
 DDNS, firewall, NAT, DMZ host traffic statistics and other functions
- Support for TCP / IP, UDP, FTP (optional), HTTP and other network protocols
- Support for SNMP V1.V2.V3

Quick start guide

2.1 Product Display



2.4 LED indicators

name	state	description	
Svotom Jomp	twinkle	It indicates that the power supply is normal and it is starting	
System lamp	Often	Note that the evetem is rupping apportably	
(SYS)	bright	Note that the system is running abnormally	
	Often	System operation	
	bright	System operation	
Dower Jomp	Often	The equipment is in normal power supply	
Power lamp (PWR)	bright	The equipment is in normal power supply	
	extinct	The equipment has abnormal power supply	
Network	Often	Indicates that the router has successfully dialed up to the	
Lamp (LINK)	bright	network	
	twinkle	Indicates that the router is currently connecting to a dial-up	
	wilkie	connection	

2.5 Accessories

Accessories name	quantity	remarks
FT205L	1	
4G antenna	1	
Power adapter	1	
Quick start guide	1	
Industrial guide rail buckle	1	

Preparation

3.1 Out of the box

After the whole package of equipment arrives at the site, it is necessary to open the box and check whether the accessories are complete according to the product accessories list. Please keep the packing materials well after opening the box, for later use.

3.2 Installation and wiring

3.2.1 SIM card installation

During the normal installation process, the product needs to install SIM in the SIM card slot in the SIM slot on the right side of the front panel.

Step 1 Gently press the yellow button on the SIM holder with a sharp object to pop the holder:



Step 2 insert the SIM metal face up and into the holder with the missing end facing the outside. Then push the card holder into the card slot:



3.2.2 Antenna installation

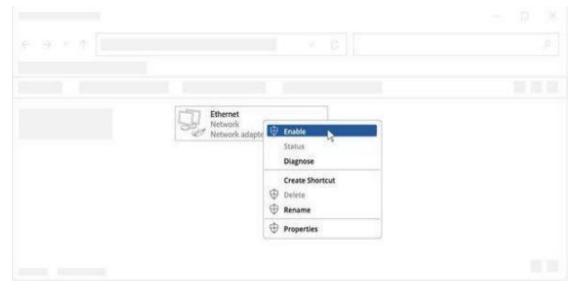
Rotate the antenna into the antenna connector accordingly. The external antenna should be installed vertically always on a site with a good signal.

3.3 Log in the Web UI of router

This product has built-in WEB interface, management and debugging tools. Users should configure relevant parameters before using the router, and they can flexibly change the relevant parameters, software upgrade and conduct simple tests.

3.3.1 Computer network configuration

1. Ensure the Wireless network connection is Enabled. Go to Start — Control Panel — Network and Internet —NetworkandSharing Center. Click on the Change adapter settings in the left panel, then right-click on Wireless Network Adapter, andselectEnable.



2、 Check if IP and DNS are obtained automatically. Right-click on Wireless Network Adapter and select Properties. ThenselectInternet Protocol Version 4 and click Properties.

ieneral	Alternate Configut	tation			
0	ibtain an IP address au	tomatically			
0	lbtain DNS server addr	ess automatically			
-01					
				Advanced.	
				ensite entered.	

3.3.2 Login to device

1、Open a Web browser on your PC (Chrome is recommended), type in the IP address 192.168.10.1, and press Enter onyour keyboard.

2、When the first login, please enter the default user name: admin, password: iradm

Username	admin	
Password	••••	

1. After you login the WebUI, you can view system information and perform configuration on the router.

FT205L			
Status	^	Home / System	
System			
Internat Status		Device Information	
Network	~		
6 VPN	~	Device Model	FT205L
Firewall	~	System Version	3.8.4 (240403111216)
= Firewall		RunTime	0Day0Hour24Minutes
🛠 System	~	Device SN	KO0C010W0004
O Logout		LAN Status	
		IP Address	192.168.10.1
		IPV6 Address	fd4c:1234:abcd::1/48
		Netmask	255.255.255.0
		MAC Address	BC:14:EF:BB:A8:FC
		DHCP Client Count	0
		Internet access traffic analysis	
		Interface WWAN	Transmit:129.6 KiB Receive:0.0 B
		Interface WAN	Transmit:123.4 KiB Receive:0.0 B
		Interface LAN	Transmit:162.9 KiB Receive:208.5 KiB

Network Configuration

4.1 Network Configuration

This section explains how to connect FT205L to network via WAN connection or cellular.

4.1.1 Ethernet WWAN Configuration

1. The default system is 4G wireless Internet access mode, insert 4G service card, the router will automatically identify the main card (SIM1) for dial-up Internet access.

101000 (011-02001110)		
Link Type	Auto	
REG	0	
APN		
Auth Type	None	
Username		
Password		
PIN Code		
Dial Number		
LCP echo failure threshold	10	
LCP echo interval	5	
MTU	1490	
DNS Server1		
DNS Server2		
Dial Time	5	
Dial Interval	1	
Main SIM	SIM1 13	
Backup SIM1	SIM2 13	
AutoSwitch		

2、 If you need to realize the dual card switching function, please install the two 4G charge cards in SIM1 and SIM2 respectively. After you configure the main card and standby card, check "Auto cut card" and save it.

WWAN	Wired WAN Disconnect Reboot	WWAN ICMP Check	
	Link Type	Auto	
	REG	0	
	APN		
	Auth Type	None	
	Username		
	Password		
	PIN Code		
	Dial Number		
	LCP echo failure threshold	10	
	LCP echo interval	5	
	MTU	1490	
	DNS Server1		
	DNS Server2		
	Dial Time	5	
	Dial Interval	1	
	Main SIM	SIM1 1	3
	Backup SIM1	SIM2 1	3
	AutoSwitch		1
			Save Cancel

3、 If you are using a 4G private network card, please fill in the corresponding parameters through the relevant APN information provided by the operator and save it.

Link Type	Auto	
REG	0	
APN	shenzhen123456789@gd.com	
Auth Type	СНАР	
Username	username	
Password	password	
PIN Code		
Dial Number		
LCP echo failure threshold	10	
LCP echo interval	5	
MTU	1490	
DNS Server1		
DNS Server2		
Dial Time	5	
Dial Interval	1	
Main SIM	SIM1 13	
Backup SIM1	SIM2 13	
AutoSwitch		

4.1.2 WAN

Wired connection WAN includes: DHCP client, static IP, PPPOE: PPPOE parameter configuration, as shown in the figure below:

Link Type	PPPOE	
Username	075501234567@gd	
Password	password	
Service Name	Service Name	
Max Demand(Minute)		
MAC Address	BC:14:EF:BB:A8:FB	
МТО	1500	

Configure according to the example of the above figure, input the correct broadband dial account and password, and click "Save".

Static address parameter configuration, as shown below:

WWAN Wired WAN Disconnect Rebo	vot WWAN ICMP Check
WAN WIRE WAN DISCONNECT REDO	ot www.aivic.wir-check
Link Type	Static IP
IP Address	192.168.15.100
Netmask	255.255.255.0
Gateway	192.168.15.1
DNS Server1	114.114.114
DNS Server2	8.8.8
MAC Address	BC:14:EF:BB:A8:FB
MTU	1500
	Save Cancel

Configure according to the example above, and click "Save". **DHCP client parameter configuration, as shown below:**

WWAN Wired WAN Disconnect R	Reboot WWAN ICMP Check
Link Type	DHCP Auto
MAC Address	BC:14:EF:BB:A8:FB
MTU	1500
	Save Cancel

Configure according to the example above, and click "Save".

4.1.3 Break the line and restart

WWAN Wired WAN Disconnect Reboot	WWAN ICMP Check	
Enable Reboot When Disconnect	Enabled O Disabled	
Period	60	Senond
Interval	600	Senond
IP Address1	114.114.114	
IP Address2		
	Save Cancel	

After the disconnection restart function is enabled, the system will automatically perform PING operation on the IP address in the settings.

The detection time is the cumulative packet loss time; the detection interval is how long for the PING function once; the IP address is the target address of the system for the PING function. If the PING pass IP address fails during the detection time period, the system will automatically restart the operation.

WWAN	Wired WAN Disconnect Reboot	WWAN ICMP Check	
	Enable WWAN Disconnect Check	Enabled	O Disabled
	Interval	2	Minutes
	Protect Sleep	0	Minutes
	Usual Using Address	VWAN DNS 🗆 W	VAN Gateway
	Custom domain name ip address	114.114.114.114	
	Custom domain name ip addressV6		
		Save Canc	el

4.1.4 Break line detection

After the disconnection detection function is enabled, the system will automatically operate the PING on the IP address in the settings.

The detection time is the cumulative packet loss time; the detection interval is how long for the PING function once; the IP address is the target address of the system for the PING function. If the PING IP address is failed during the detection time limit, the system will automatically re-dial the operation.

4.1.2 LAN Configuration

Local area network (Local Area Network, LAN) is a group of computers connected by multiple computers in a certain area. Routers can assign IP addresses to devices within the LAN, enabling them to communicate with each other and access the Internet.

Home / LAN			
IP Address	192.168.10.1		
Netmask	255.255.255.0		
MTU	1500		
MAC Address	BC:14:EF:BB:A8:FC		
	Save Cancel		

4.1.3 DHCP Server

DHCP (Dynamic Host Configuration Protocol, Dynamic Host Configuration Protocol) is a LAN network protocol using UDP protocol and has two main uses: automatically assigning IP addresses to the internal network or network service providers, and to users or internal network administrators as a means of central management of all computers.

1、DHCP Server Configuration

Used to set the DHCP server open or close, and DHCP gateway, starting address, lease duration, etc., generally open by default.

DHCP Server Setting DHCP Client List	DHCP Bind
DHCP Service	Enabled O Disabled
Start Address	192.168.10.100
DHCP Max IP	150
Netmask	255.255.255.0
Gateway	192.168.10.1
DNS Server1	
DNS Server2	
DHCP Lease Time	720 Minutes
	Save Cancel

2、DHCP List of clients

Displays the device currently using the assigned address.

有户纳信息			
IP地址	MAC地址	主机名	剩余租期(秒
192.168.199.227	74:e5:0b:37:a7:f9	wangzhiqiang-PC 01:74:e5:0b:37:a7:f9	36074秒
192.168.199.171	14:75:90:18:81:47	jane-THINK 01:74:e5:0b:37:a7:19 01:14:75:9018:81:47	3681510
192.168.199.136	5c:8d:4e:ca:b2:4c	iPhone-2 01.74/e5.0b:37:a7/f9 01:14:75:90:18:81:47 01.5c:8d:4e:ca:b2:4c	36158秒
192.168.199.145	44:74:6c:ae:a7:3f	android-b75bd5f00f4c634b 01:74:e5.0b:37:a7:f9 01:14:75:90:f8:81:47 01:5c:8d:4e:ca:b2:4c 01:44:74:6c:ae:a7:3f	25465秒
192.168.199.186	68:17:29:a5:e2:22	think 01:74:e5:0b:37:a7:f9 01:14:75:90:f8:81:47 01:5c:8d:4e:ca:b2:4c 01:44:74:6c:ae:a7:3f 01:68:17:29:a5:e2:22	29738秒
192.168.199.105	54:ea:a8:09:24:1f	zphone 01:74 e5 0b:37:a7.19 01:14:75 90 18:81:47 01:5c:80:4e:ca:b2:4c 01:44:74:6c:ae:a7:3f 01:68:17:29 a5:e2:22 01:54:ea:a8:09:24:1f	29660⊮
192.168.199.187	fc:3d:93:1b:ab:83	android-3dd1505cbdcaa9e 01:74:e5.0b:37:a7:9 01:14:75:90:18:81:47 01:5c:8d:4e:ca:b2:4c 01:44:74:6c:ae:a7:3f 01:68:17:29:a5:e2:22 01:54:ea:a8:09:24:1f*	43184秒
92.168.199.133	48:5b:39:49:9e:cf	Flyinker 01.74:e5.0b:37:a7/f9 01.14.75:90 f8:81:47 01:5c:8d:4e:ca.b2:4c 01:44:74:6c:ae:a7:3f 01:68:17:29:a5:e2:22 01:54:ea:a8:09:24:1f* 01:48:5b:39:49:9e:cf	33228秒
192.168.199.190	20:08:ed:40:cc:ba	android-612262cb4f025f1f 01:74:e5:0b:37:a7:f9 01:14:75:90:f8:81:47 01:5c:8d:4e:ca:b2:4c 01:44:74:6c:ae:a7:3f 01:68:17:29:a5:e2:22 01:54:ea:a8:09:24:1f* 01:48:5b:39:49:9e:cf*	34310秒
92.168.199.173	ec:55:19:c3;ee:cf	2015-0130-0036 01:74:e5:0b:37:a7:19 01:14:75:90:18:81:47 01:5c:8d:4e:ca:b2:4c:01:44:74:6c:ae:a7:31 01:68:17:29:a5:e2:22 01:54:ea:a8:09:24:11* 01:48:5b:39:49:9e:cf* 01:ec:55:19:c3:ee:cf	32298秒
92.168.199.148	ac:17:13:cb:44:86	M/2S-xiaomishouji 01:74/e5/0b/37/a7/19 01:14:75/90/18/81:47 01:5c/8d/4e/ca/b2/4c 01:44:74/6c/ae/a7/3f 01:68/17/29/a5/e2/22 01:54/ea/a8/09/24:11* 01:48/5b/39/49/9e/cf* 01/ec/55/19/c3/ee/cf*	26817秒
192.168.199.226	74:e5:0b:37:a7:f8	* 01:74:e5.0b.37:a7:19 01:14:75 90:18.81:47 01:5c.8d: 4e ca:b2:4c 01:44:74:6c.ae:a7:3f 01:68:17:29:a5 e2:22 01:54:ea:a8:09:24:1f * 01:48:5b:39:49:9e:cf * 01:ec:55:19:c3:ee:cf * 01:74:e5:0b:37:a7:18	29425秒

3、DHCP Address Bind

Specify the IP address according on its MAC address.

DHCP Server Setting DHCP Client List	DHCP Bind	
Add DHCP Bind		
Host Name		test
IP Address		192.168.10.100
MAC Address		00:11:22:33:44:55
		Save Cancel

4.1.4 DTU

The DTU setting is closed by default, and it is divided into two modes: server and client.

DTU Type	Disabled	~
	Disabled	
	Server Client DTU tty Transmit To Mobile tty SeaNet Cloud	

1、DTU server

Description of the Server Mode settings:

DTU Type	Server	~
Protocol	ТСР	~
Port	9900	
Baudrate	115200	~
Data bits	8	~
Stop bits	Ĩ	~
Parity	None	~
Flow Control	None	÷
	Save Cancel	

DTU type: Server mode

Agreement: Support for TCP, UDP.

Port: The port number used by the server.

Baud rate: Baud rate of the serial port, supported by: 9600,19200,38400,57600,115200.

Data bit: Serial port data bit setting, supported by: 8,7,6,5.

Stop bit: serial port stop bit setting, support: 1,2.

Check bit: serial port check bit setting, support: None, Odd, Event, Mark, Space.

Flow control: serial port flow control options, support: None, RTS / CTS, XON / XOFF.

2、 DTU Client

Description of the client-side mode setting:

DTU Туре	Client	~
Protocol	тср	~
IP Address	47.115.208.32	
Port	9900	
IP Address2	47.115.208.32	
Port2	9901	
Baudrate	115200	~
Data bits	8	~
Stop bits	1	~
Parity	None	~
Flow Control	None	~
Heartbeat Interval	60	
Register Package	String	~
Content	123	
Heartbeat Package	String	~
Content	abc	
	Save Cancel	

Agreement: Support for TCP, UDP.

IP address: the IP address or domain name of the server.

Port: The port number used by the server.

Baud rate: Baud rate of the serial port, supported by: 9600,19200,38400,57600,115200.

Data bit: Serial port data bit setting, supported by: 8,7,6,5.

Stop bit: serial port stop bit setting, support: 1,2.

Check bit: serial port check bit setting, support: None, Odd, Event, Mark, Space.

Flow control: serial port flow control options, support: None, RTS / CTS, XON / XOFF.

Heartbeat interval: The heartbeat packet sends the heartbeat content to the server according to the time set by the heartbeat interval.

Registration package: The DTU is sent once when it is connected to the server.

Heartbeat packet: When there is no data sent by the serial port, the data will be sent to the server regularly to keep the link smooth.

4.1.5 Network detection tool

Cooperate with the tester to monitor the line status of the whole network in real time, and take corresponding measures.

PING	TRACEROUTE		
	IP or Domain name	114.114.114.114	
	Source internet interface	Auto	~
	Times	10	
		Start Stop	
	PING 114.114.114.114 (114.114.114.114): 56 da	ta bytes	

4.2 VPN

Remote Access

VPN is for building a private dedicated network on a public network via the Internet. 'Virtuality" is a logical network.

4.2.1 PPTP settings

PPTP (Point to Point Tunneling Protocol), namely, the point-to-point tunneling protocol. This protocol is a new enhanced security protocol developed on the basis of PPP protocol, supporting multi-protocol virtual private network (VPN), which can be enhanced by password authentication protocol (PAP), scalable authentication protocol (EAP) and other methods. It enables remote users to securely access enterprise networks by dialing into the ISP, through direct connection to Internet or other networks.

PPTP Server

Build the PPTP server

PPTP Server	PPTPUser	
	PPTPServer	Enabled Disabled
	Local IP	192.168.0.1
	Remote IP	192.168.0.10-30
		Save Cancel

As shown above: Open the PPTP server button and configure the PPTP virtual IP address field:

Username	pptptest
Password	password
Remote Subnet	192.168.10.1
Netmask	255.255.225.0
IP Address	192.168.10.10
	Save Cancel

User name: the name of the new user Password: Password for the new user Remote subnet: the local gateway IP of the PPTP client Subnet mask: Subnet mask of the PPTP client IP address: Virtual IP address assigned to the changed user

PPTP Client

In the figure below, click-new PPTP client in PPTP client to add a new PPTP connection.

PPTP Client						
Add PPTP Client						
Client Information						
Name	Server Address	Username	Status	IP Address	Action	

PPTP Client	Enabled Disabled
Name	test
Server Address	32.14.55.72
Username	pptptest
Password	password
Remote Subnet	192.168.10.0
Netmask	255.255.255.0
Local End IP	192.168.0.10
Remote End IP	192.168.0.1
Refuse	🗹 refuse-pap 🗹 refuse-chap
	🗹 refuse-eap 🗹 refuse-mschap
МРРЕ	Enabled Oisabled
Default Route	Enabled Oisabled
MTU	

Name: The name of this client connection that can be customized. Server address: Fill in the address of the PPTP server here, which can be the domain name or the IP address. Username: User name to login PPTP Server Password: Password to log into PPTP Server. Remote Subnet: The network of the remote PPTP server Remote Net Mask: Subnet mask of remote PPTP server MPPE Encryption: Enable or disable Microsoft Point-to-Point Encryption. MTU : Maximum Transmission Unit

4.2.2 L2TP

The L 2 TP is an industry-standard Internet tunnel protocol, functioning roughly similar to the PPTP protocol, such as enabling the same encryption of network data streams. However, there are differences, such as PPTP requires IP network; L 2 TP requires packet point-to-point connection; PPTP uses single tunnel; L 2 TP uses multiple tunnel; L 2 TP provides Baotou compression and tunnel verification, while PPTP does not support.

Create a new L 2 TP client connection

In the figure below, click in the L 2 TP client-a new L 2 TP client to add a new L 2 TP connection.

Add L2TP Client					
Client Information					
Name Se	rver Address	Username	Status	IP Address	Action

L2TP Client	Enabled Disabled
Name	test
Server Address	32.14.52.73
Username	pptptest
Password	password
Local End IP	192.168.0.1
Netmask	255.255.255.0
Default Route	C Enabled O Disabled
MTU	
	Save Cancel

Name: The name of this client connection that can be customized. Server address: Fill in the address of the L2TP server here, which can be the domain name or the IP address. Username: User name to login L2TP Server Password: Password to log into L2TP Server. Local end IP: The network of the remote L2TP server Remote Net Mask: Subnet mask of remote L2TP server MTU : Maximum Transmission Unit

4.2.3 **IPSEC**

The IPsec protocol works on the third layer of the OSI model, making it suitable to protect TCP or UDP-based protocols when used alone (such as the socket sublayer (SSL) cannot protect the UDP layer). This means that the IPsec protocol must deal with reliability and fragmentation issues compared to the transport layer or higher level, which also increases its complexity and processing overhead. In contrast, SSL / TLS relies on a higher level TCP (layer 4 of OSI) to manage reliability and sharding.

1、Connect Status and Control

Existing IPSEC connection status information is displayed here. In the figure below, click on the-new IPSEC connection in the IPSEC list to add a new IPSEC connection.

IPSEC Policy IPSEC	Policy IKE Policy					
Add IPSEC Link						
IPSEC Information						
Name	Mode	Remote Address	Remote Subnet	Status	Comment	Action

Name	test	
Mode	Main Aggressive	
IPSEC Type	Net To Net	~
Work Mode	Add	~
Local ID		
Local Subnet	192.168.10.0/24	
Remote Address	27.191.236.69	
Remote ID		
Remote Subnet	10.0.1.0/24	
IKE Version	IKEV1	~
IKE Policy	2	~
IPSEC Policy	1	~
Verification Type	IKE-PSK	~
PSK	8239904	
DPD Action	none	~
ICMP ID	27.191.236.69	
Comment		٦
	Save Cancel Return	

Name: IKE policy name, use plain English or English numbers.

Mode: Optional main mode, savage mode.

IPSEC networking type: support network to network mode.

Working mode: Optionally not enabled, active connection, automatic discovery, waiting for the connection.

Local ID: IPSEC ID may not be set or set to pure English custom name.

Local subnet: the local subnet address.

Distal address: the IP address or domain name of the opposite-end IPSEC.

Distal ID: the IPSEC ID name of the opposite end.

Distal subnet: the opposite-end subnet address.

IKE version: optional version IKEv 1 or IKEv 2.

The IKE security policy: The IKE security policy needs to be added to the IKE security policy first.

The IPSEC security policy: The IPSEC security policy needs to be added to the IPSEC security policy first.

Tunnel Certification: Optional Mode IKE-PSK, IKE-XAUTH-PSK, NEVER.

PSK: the PSK key for the IPSEC connection.

DPD mode: optional none, clean, hold, restar.

Note: Comments about this link.

2、New IPSEC security policy

In the figure below, click on the new IPSEC security policy in the IPSEC Security Policy to add a new IPSEC security policy.

dd KR Policy .	PSEC Policy IPSEC Po	dicy. IKE Policy		
S1				
	E Policy			

Click to see the following setting options:

Name	1	
Protocol	АН	~
AH Verification Algorithms	MD5	~
	Save Cancel Return	

Name: IKE policy name, use plain English or English numbers.

Agreement: Optional AH, ESP.

AH validation algorithm: optional MD5, SHA 1.

3、Add the IKE security policies

In the figure below, click on the-new IKE security policy in the IKE security policy to add a new IKE security policy.

IPSEC Policy IP	SEC Policy IKE Policy				
Add IKE Policy					
IKE Policy					
Name	Verification Algorithms	Encryption Algorithm	DH Group	IKE Life time	Action

Click to see the following setting options:

Name	2	
Encryption Algorithm	DES	~
Verification Algorithms	SHA1	~
DH Group	DH1 - MODP768	~
IKE Life time	3	Hour
	Save Cancel Return	

Name: IKE policy name, use plain English or English numbers.Encryption algorithm: optional DES, 3 DES, AES128, AES192, AES256.Validation algorithm: select SHA 1, MD5.DH group: select DH 1, DH 2, DH 5, DH 14, DH 15, DH 16, DH 17, DH 18.IKE survival cycle: a minimum value of 1 hour.

4.2.4 GRE

GRE (Generic Routing Encapsulation), the general routing encapsulation protocol, is the encapsulation of some network layer protocols (such as IP and IPX), enabling these encapsulated datagram to be transmitted in another network layer protocol (such as IP). GRE is the third layer tunnel protocol of VPN (Virtual Private Network), where a technology called Tunnel (tunnel) is used between the protocol layers.

Existing GRE connection status information is displayed here.

In the figure below, click on the-new GRE connection in the GRE to add a new GRE tunnel connection.

Add GRE Link					
GRE					
Name	Tunnel Address	Remote Address	Remote Subnet/Mask	Status	Action

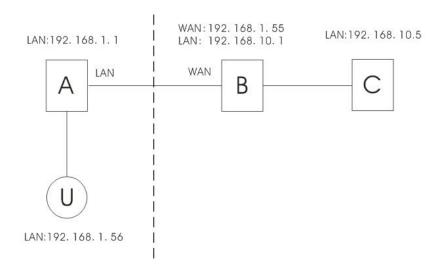
GRE Link	Enabled Disabled
Name	test
Tunnel Address	192.168.0.10
Remote Address	32.14.72.54
Remote Subnet/Mask	192.168.10.0/24
Password	password
MTU	1400
ΠL	250
	保存 取消

Name: GRE tunnel name

Tunnel address: the IP address of the GRE tunnel. Distal address: the IP address of the distal GRE connection. Distal subnet / mask: the subnet and mask of the distal GRE. Password: the connection password for the GRE tunnel The MTU value: the MTU value of the GRE tunnel. TTL: the TTL cycle of the GRE tunnel.

4.3 Firewall settings

4.3.1 Port mapping



As shown in the figure: there are three routers: A, B (IR 1 equipment) and C, and U is the user end. A and U are in the same LAN, the IP address of A is 192.168.1.1, and the IP address of U is 192.168.1.56. B and C are in another LAN, IP addresses are 192.168.10.1,192.168.10.5. The WAN port of router B is connected to the LAN port of

router A, and the WAN address is 192.168.1.55.

The virtual server is defined as: user U accessing router B through A across the network, and router B automatically transfers the service request to the server (router) C.

Here, the connection mode and setting of B are very important. The connection mode is required as follows:

1. B Connect to the external network with the WAN port.

2, B, connect C with the LAN port.

Setting mode: Enter the setting interface of router B-firewall-commodity mapping, and the setting parameters are as follows:

Add Port Map Rule		
Protocol	ТСР/ИДР	~
Local Port	9900 - 9900	
External Port	9900 - 9900	
IP Address	192.168.10.100	
Comment		
	Save Cancel Return	

Among them, the external port can be filled in at will, and the internal port should be consistent with the corresponding service port of the server (router) C (port 80 is the WEB configuration interface port of the router C).

Fill in according to the above content, and save it.

Now, we connect to router A through the client U, and input: http://192.168.10.100:9900 in the address bar, then the browser directly enters the Settings interface of router C.

4.3.2 DMZ settings

DMZ is short for the English word "demilitarized zone", and the Chinese name is "isolation zone", also called "demilitarized zone". It is a buffer between the non-secure system and the security system to solve the problem that the external network access users cannot access the internal network server after installing the firewall. The buffer is located in a small network area between the enterprise internal network and the external network. In this small network area, you can place some necessary public server facilities, such as enterprise Web server, FTP server, and forum. On the other hand, through such a DMZ region, the internal network is more effectively protected. Because this kind of network deployment, compared to the general firewall scheme, for the attacker from the external network and another level.

DMZ Setting	
Use DMZ	Enabled Disabled
Local IP Address	192.168.10.100
	Save Cancel

4.4 System Settings

4.4.1 Management Settings

Used to manage the router interface language and password security.

1、Password setting

Manage the router login password, save and restart the effective.

Password Setting	Language Setting Web Port Setti	ing
Currn	et Password	
New F	Password	
Confi	rm Password	
		Save Cancel

2、Language settings

Language : Set up the Router page shows the type of language, including simplified Chinese and English.

atus	~	Home / Admin				
etwork	~					
reless	~	Password Setting	Langu	lage Setting	Web Port Setting	
PN	~	Obecce Langu		English		-
oute	~	Choose Langu	age			•
rewall	~			Save		
/stem	^					
in						
ig		© 2015 - Industry Cellula	r&Wireles	s Router (SL-IR1		
oot						
gout						
	etwork reless PN oute rewall /stem in ig rade Firmware oot	etwork reless reless N rewall re	Home / Admin Home / Admin Password Setting Password Setting Choose Langu Choose Langu Choose Langu Setting Choose Langu Setting Choose Langu Setting Setting Choose Langu Setting Setting Setting Setting Setting S	Home / Admin Home / Admin Password Setting Langu Password Setting Langu Choose Language Choose Language Choose Language (Choose Lan	Home / Admin Home / Admin Password Setting Language Setting Password Setting Language Setting Choose Language English Save Save (Save (Save)	Home / Admin Home / Admin Password Setting Language Setting Web Port Setting Password Setting Language Setting Web Port Setting Choose Language English Save

4.4.2 Configuration management

You can save the current configuration information locally, or import previous backup files locally.

Home /		
Backup Config	Download Backup	
Factory Reset	Confirm	
Import Config	选择文件】未选择任何文件	Confirm

4.4.3 Firmware

Firmware Upgrade : New firmware versions are posted at www..com and can be downloaded. If the Router is not experiencing difficulties, then there is no need to download amore recent firmware version, unless that version has a new feature that you want to use.

FT205L
3.8.4 240403111216
选择文件 未选择任何文件
Confirm

4.4.4 Reboot

This item can set the timing restart of the device.

Reboot Now	Reboot Timer	
	Reboot Now	Confirm

You can schedule regular reboots for the router: Regularly after xxx Minutes.

Reboot Now	Reboot Timer					
E	Enabled Reboot Timer	۲	Enabled	\bigcirc	Disabled	
F	Reboot Timer Interval	2440				Minutes
			Save Cano	el		

5 FCC Warnning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.