HYTTHDRM100 3G/4G wireless router user guide

V1.01



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Chapter 1 Install machine

1.1 Overview

Thank you for choosing IOT routing broadband

products!

This manual will guide you how to use the 3G/4G LTE router and connect to the internet.

HYTTHDRM100 should be installed correctly, in order to get good performance. Usually, the installation should be under the guidance of engineers.

%Note. Please install the router and plug SIM card without power supply.

1.2 Package list.

Recommend you reserve the package box, in order to re-use when transfer. The box is environment protected material.

※HDRM100 3G/4G LTE router, 1 unit.

%4G LTE antenna, 2 units (Or 1 unit.)

₩WIFI antenna, 2 units

☆GPS antenna, 1 unit (Optional)

% Standard 12V/1A power adapter, 1 unit. Note. If you want to choose other power adapter, such as Vehicular power supply .Welcome to inquiry our colleague in advance.



1.3 Dimensions and mounting holes (Unit : mm)

1.4 LED indication.

For the status of LED, please refer to the following description.

LED	Operating Status	Description	
DCCI	Green	Strong 4G LTE signal	
וככא	Red	Weak 4G LTE signal	
Guetere	Every one second on	System Normal	
System	off	System abnormal or rebooting.	
	Fuery three coord or	Registered without data	
NET	Every three second on	transmission	
	Every one second on	Registered with data transmission	

	off	Un-registration	
	On	LAN1 device available	
LAN1	Every three second on	Data transmission	
	off	LAN device unavailable	
	on	WAN device available	
WAN/LAN2	Every three second on	Data transmission	
	off	WAN device unavailable	

1.5 Adapter, Antenna, SIM card.

Adapter in box is Standard power adapter +12V/1A. But customers can choose different one according to the wide power supply range of HYTTHDRM100 Series router, the input range is from DC 5V/2.5A to DC 48V/0.5A

HYTTHDRM100 Series router requires 2 units of 4G antenna, standard female SMA connector, 50 ohm impedance; 2 units WIFI 2.4G antenna, standard male SMA connector, 50 ohm impedance.

HYTTHDRM100 Series router uses Push-button SIM card holder, supports 1.8V/3V SIM/USIM card, ESD protection inside.

Chapter 2 Installation and configuration

2.1 Wiring methods

Insert the SIM card into the SIM card slot beneath the HYTTHDRM100 Series 4G LTE router. Press carefully until it 'clicks' into place.



Plug the power adapter into the AC mains and plug the DC cable firmly into the +5V/2.5A~+48V/0.5A DC input of the HYTTHDRM100 Series 4G LTE router. Power light is working. User should choose PPP or NDIS dialing mode. It will start to work automatically.

Before configuration, HYTTHDRM100 Series router should be connected to PC via Ethernet cable or Wi-Fi network.

1) With Ethernet cable. One connector of Ethernet cable insert to LAN port, another connector of Ethernet connects to PC Ethernet port.

2) With Wi-Fi network. SSID of HYTTHDRM100 SERIES is "XXXXXXXXX" default without password.

3) If user want to connect WLAN via cable. Please connect to HYTTHDRM100 WAN port. And setup parameter of WLAN connect method.



2.2 Configuration.

2.2.1 IP address setting.

Internet Protocol Version 4 (TCP/IPv4)	Propertie	es		? <mark>×</mark>		
General Alternate Configuration						
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:						
IP address:						
Subnet mask:						
Default gateway:			1.0			
Obtain DNS server address autom	atically					
OUse the following DNS server add	resses:					
Preferred DNS server:						
Alternate DNS server:						
Validate settings upon exit			Adva	nced		
		OK		Cancel		

2.2.2 Routing configuration management UI.

PC could access the configuration pages after connected to HYTTHDRM100 Series router via IE explorer or other browser tools. Default IP address is 192.168.0.1

There have 8 pages for setting, Operating mode configuration, network setting, 2.4G WIFI setting, firewall setting, SMS setting, DDNS setting , GPS setting, management and Status pages. You can get details information from each page.

Default user name is admin and the default password is admin

2.2.3 Working mode.

It can provide two operation mode, Bridge mode and Gateway mode.

Bridge is two layer network equipment. It's a device for connecting different network segments.

HYTTHDRM100 default operation mode is Gateway mode. It can be used to provide

network compatibility functions such as protocol conversion, routing, data exchange and so on when interworking between networks with different architectures or protocols.

The default configuration parameters of the system are as follows.

Operation Mode Configuration

You may configure the operation mode suitable for you environment.				
Bridge: All ethernet and wireless interfaces are bridged into a single bridge interface. Gateway: The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interf	ace are bridged together and are treated as LAN ports.			
NAT Enabled:	Enable			
TCP Timeout:	180			
UDP Timeout:	180			
ALL LAN Enabled:	Disatle			
	Apply Cancel			

NAT enable. Open or close the network address translation.TCP Timeout. TCP Send Protocol timeout retransmissio, timeout settiing.UDP Timeout. UDP Send Protocol timeout retransmissio, timeout settiing.

ALL LAN enable. After this function is enable, the WAN port can be switched to LAN port. HYTTHDRM100 will be switched to 2 LAN ports. The default is 1 WAN/1 LAN port.

2.3 Network setting.

2.3.1 WAN setting.

WAN connection types include. Automatic ,Static IP, dynamic IP, PPPoE, 3G /4G PPP, 3G /4G NDIS.

Option 1. Static IP

Usually, this option will be used in optical networks. The service provider will provide the IP address, subnet mask, gateway and DNS information. Please add the configuration parameters of service providers to the HYTTHDRM100.

Wide Area Network (WAN) Settings

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.			
WAN Connection Type:	STATIC (Issel IP)		
Static Mode			
IP Address	192.168.1.5		
Subnet Mask	255 255, 255, 0		
Default Gateway	192.168.1.1		
Primary DNS Server	192.168.1.1		
Secondary DNS Server	192.168.1.1		
MAC Clone			
MAC Clone Setting	Disable		
	Apply Cancel		

IP address. User owner IP address Subnet mask. User owner subnet mask. Default gateway. User owner gateway.

Option 2. Dynamic IP

Dynamic IP is DHCP service. Assign the IP address to the internal network or the network service provider automatically. Connect Ethernet cable to WAN port, configure as follow. Router uses this dynamic IP as WAN connection type. Wide Area Network (WAN) Settings

	· ·		<u> </u>	
You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.				
	WAN Connec	tion Type:	DHCP (Auto config)	•
DHCP Mode				
		Hostname (optional)		
MAC Clone				
	MAC	Clone Setting	Disable	
			Apply	Cancel

Option 3. PPPoE

Usually, the ADSL service will use this option. PPPoE connection to the Internet service provider that it should has service provider name, username and password.

Wide Area Network (WAN) Settings				
You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.				
WAN Connection Type:	PPPoE (ADSL)			
PPPoE Mode				
User Name	pppoe_user			
Password				
Verify Password				
	Keep Alive			
Operation Mode	Keep Alive Mode: Redial Period 60 senconds			
	On demand Mode: Idle Time 5 minutes			
MAC Clone				
MAC Clone Setting	Disable			
	Analy			

User name. User name provided by ISP provider Password. Password provided by ISP provider

Option 4:3G / 4G PPP

Using 3G / 4G PPP mode, users need to insert the SIM card into the card slot before booting. And then click the confirmation button to access the internet.

Note.

HYTTHDRM100 4G router system is set defaults parameters of the local operator network, such as user name, password, APN, access number(like *99#), DNS, etc. If we did not match the equipment data from network operators user data update. please contact with the operator and confirmed the parameters of SIM/USIM card and set the correct parameters on the HYTTHDRM100 settings interface to ensure normal access to the Internet.

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.				
WAN Connection Type:	30/43 PPP •			
3G/4G PPP				
APN				
PIN				
Dial Number				
Username				
Password				
MAC Clone				
MAC Clone Setting	Disable			
	Apply Cancel			

Wide Area Network (WAN) Settings

Option 5 : AUTO

Automatically connect to the Internet using the 4 options 1~4. You can choose the static IP or DHCP in the preferred connection type. The system will automatically select the priority of these two modes. The default configuration of the system is as follows.

Wide Area Network (WAN) Settings				
You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.				
WAN Connection Type:	AUTO			
Primary Connection Type				
Connection Type	DHCP (Auto config)			
DHCP Mode				
Hostname (optional)				
3G/4G PPP				
APN				
PIN				
Dial Number				
Username				
Password				
MAC Clone				
MAC Clone Setting	Disable			

In AUTO mode, if you want to use 3G/4G PPP mode. You should setup dialing number, user name and password of the service provider in the HYTTHDRM100.

Option 6: 3G/4G NDIS

3G/4G NDIS is based on the SIM card, users need to insert the SIM card into the card slot before boot. Using the default configuration of the system and click OK to access the Internet.

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.				
WAN Connection Type:	3040 NDIS			
3G/4G NDIS				
APN				
PIN				
Username				
Password				
Authentication	None			
MAC Clone				
MAC Clone Setting	Disable			
	Apply Cancel			

Wide Area Network (WAN) Settings

2.3.2 LAN setting.

LAN is a group which is connected by a plurality of computers in a certain area. It can easy to realize intercommunication inside the local area network

Note. The preset gateway of local area network must be connected with IP address and the start IP address of LAN, and the end of IP address is in the same network segment. Otherwise it can not access the Internet.

Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.		
LAN Setup		
IP Address	192.168.0.1	
Subnet Mask	255.255.255.0	
LAN 2	Enable Disable	
LAN2 IP Address		
LAN2 Subnet Mask		
MAC Address	C0:4A:09:15:87:D4	
DHCP Type	Server	
Start IP Address	192.158.0.100	
End IP Address	192.188.0.200	
Subnet Mask	255 255 255 0	
Primary DNS Server	168.95.1.1	
Secondary DNS Server	8888	
Default Gateway	192.168.0.1	
Lease Time	86400	

Local IP. Local IP address.

Subnet Mask. Local subnet mask.

Gateway. Router internal gateway.

Start IP address and end IP address. The range IP address can be setted in the same network segment. And the IP address is the IP address of the LAN in this section.

2.3.3 DHCP Client list.

If DHCP services are enabled. All clients that connect to the DHCP will appear in this list, including the WIFI network client and the LAN client.

DHCP Client List				
You could monitor DHCP clients here.				
DHCP Clients				
Hostname	MAC Address	IP Address	Expires in	
Quzr-PC	70:85:C2:0F:2D:99	192.168.0.100	21:50:59	
box-iPhone	A0:18:28:E0:EB:2A	192.168.0.101	23:12:37	

2.3.4 VPN setting.

HYTTHDRM100 VPN. The client supports five mode, such as IPsec, PPTP,GRE,OPENVPN and L2TP etc.

VPN pass through.

When it is enabled, the penetration VPN service is allowed to pass through the HYTTHDRM100. And it is intercepted when it is stopped.

There are three kinds of L2TP penetration, IPSec penetration and PPTP penetration that can be passed or intercepted.

Select L2TP and PPTP operation mode.

PPTP, Point to Point Tunneling Protocol, is a new enhanced encryption protocol developed based on PPP protocol. PPTP supports VPN, PAP and EAP, etc.

Remote user is allowed to access safely local network via ISP, internet or other network.

L2TP, In computer networking, Layer 2 Tunneling Protocol (L2TP) is a tunneling protocol used to support virtual private networks (VPNs) or as part of the delivery of services by ISPs. It does not provide any encryption or confidentiality by itselfortating, IP relians sono and remains on protocol that it passes within the tunnel to provide private, User name for login of VPN server.

Password. Password for login of VPN server user name.

Note. Please check the VPN information in the system state to ensure that VPN starts successfully in the corresponding operation mode.

Select IPsec operation mode.

Name. Customize the name of VPN.
Local subnet. Can be empty, client local subnet.
The remote end of gateway gateway IP. VPN server gateway, required.
The remote terminal network. It can be empty. If you set up a local subnet,
the remote terminal network must be the same as the local subnet.
IKE mode. Active or brutal mode can be set.

PSK. Pre shared key, consistent with the server's PSK.

Xauth. When the authentication enable, you need to enter a username and password.

Local identifier ID type. You can setup either default or customize.Remote identifier ID type. You can setup either default or customize.Hash algorithm. You can choose MD5 or SHA1.

Security protocols. AH or ESP. AH authentication, the packet will not be encrypted, only to provide IP and ensure data packets have not been modified. ESP, to support encryption and can adapt to the end to end between the presence of NAT, recommend using this method.

Other configuration can choose the default setting. Or according to the requiements of the user to set the parameters.

Note. Please check the VPN information in the system state to ensure that VPN starts successfully in the corresponding operation mode.

VPN Connection Type					
	VPN Operation Mode	IPSec			
IPSec Mode					
Name	[]			
Local Subnet	Subnet		Subnet IP / Subnet Prefix Length		
Remote Secure Gateway IP					
Remote Subnet	None		Subnet IP / Subnet Prefix Length		
IKE Mode	Main		Pre-Shared Key (PSK)		
Xauth	Disable]			
User Name			Password		
Local ID Type	Default]	Local ID Content		
Remote ID Type	Default		Remote ID Content		
ISAKMP SA					
Hash Function	SHA1]	Encryption	AES128	•
DH Group	MODP1024]			
ISAKMP SA	[20278	1			
Hash Function	SHA1	1	Encryption	AES128	•
DH Group	MODP1024				
IPSec SA					
IPSec Proposal	ESP]			
Authentication	SHA1]	Encryption	AES128	•
Perfect Forward Secrecy (PFS)	None]			
Other IPSec Settings					
Phase1 (IKE) SA Lifetime	480	min(s)	Phase2 (IPSec) SA Lifetime	480	min(s)
NAT-Traversal	Enable]	Keepalive Frequency	1	seconds(0~60 sec)
Dead Peer Detection (DPD)	Enable]			
DPD Delay	30	seconds	DPD Timeout	120	seconds
		_			

Select GRE operation mode.

A technology called tunnel is used between the protocol layers.

VPN Connection Type	
VPN Operation Mode	GRE
GRE mode	
Remote IP	
Local IP	
Remote Subnet	
Tunnel Remoteip	
Tunnel Localip	
	Apply Cancel

You need to fill in remote VPN GRE IP, local VPN GRE IP, GRE remote subnet, GRE remote tunnel IP and local tunnel IP correctly. You can view the VPN information in the system state that it ensure VPN starts successfully in the corresponding running mode.

Select OpenVPN operation mode.

VPN Connection Type	
VPN Operation Mode	OPEN/PN
OPENVPN mode	
Server IP	
Port	119
Tunnel Type	tun
Protocol	top
Auth mode	cert ·
CA Cert Location	関連。 未追探文件。 Upload
Client Cert Location	間面
Key Location	「関連」 未追探文件。 Apply
	Apply Cancel

OpenVPN server IP. OpenVPN server IP address.

OpenVPN server port. VPN server monitor port.

OpenVPN tunnel. Select tunnel mode, tunnel(route IP tunnel),tap(Two layer communication channel)

OpenVPN port. VPN communication protocol, TCP or UDP

OpenVPN Authentication mode. password verification or certificate verification.

1. Select certificate validation mode, configure parameters as

follows.

OpenVPN cacert. Uploading CA server files. OpenVPN clientcert. Uploading CA client files. OpenVPN Key position. key files

2. Select password authentication mode

Fill in the OpenVPN user name and the OpenVPN user password.

VPN Connection Type	
VPN Operation Mode	OPEN/PN
OPENVPN mode	
Server IP	
Port	119
Tunnel Type	tun -
Protocol	tcp
Auth mode	password -
Username	
Password	
	Apply Cancel

You can view the VPN information in the system state to ensure that VPN is successfully started in the corresponding operation mode.

2.3.5 Advanced routing configuration.

Supports static mode, where you can add and remove customized static routing rules. The rules can be deleted and reset in the current routing list

Static Routing Settings		
You may add and remote custom Internet routing rules, and/or enable dynamic routing exchange protocol here.		
Add a routing rule		
Destination		
Range	Host	
Gateway		
Interface	LAN	
Comment		
	Apply Reset	

Current Routing table in the system:									
No.	Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface	Comment
1	255.255.255.255	255.255.255.255	0.0.0.0	5	0	0	0	LAN(br0)	
2	192.168.1.0	255.255.255.0	0.0.0.0	1	0	0	0	WAN(eth2.2)	
3	192.168.0.0	255.255.255.0	0.0.0.0	1	0	0	0	LAN(br0)	
4	0.0.0.0	0.0.0.0	192.168.1.1	3	1	0	0	WAN(eth2.2)	

2.3.6 QoS quality of service.

Service quality rules can be added and deleted on this page to ensure that different bandwidth and priorities are provided for each traffic.

Quality of service has four traffic direction mode:

- 1. disable
- 2. Internet upload and download
- 3. upload to Internet
- 4. download from Internet.

Quality of Service Settings

You may setup rules to provide Quality of Service guarantees for specific applications.		
QoS Setup		
Quality of Service	Upload to Internet	
Upload Bandwidth:	16M Bits/sec	
Download Bandwidth:	20M Bits/sec	
QoS Type:	MANUAL OOS	
QoS Model:	DRR	
Reserved bandwidth:	0% (10% is recommanded)	
QoS Upload Group Settings		
Highest	Rate: 10% Ceil: 100%	
High	Rate: 10% Ceil: 100%	
Default	Rate: 10% Ceil: 100%	
Low	Rate: 10% Cell: 100%	

Upload bandwidth. Bits/S limit speed of different values can be selected. Custom input is also available.

Download bandwidth. Bits/S limit speed of different values can be selected. Custom input is also available.

Select QoS type.

1. QoS automatic service

2. QoS manual setup service

Reserved bandwidth. Recommended to retain 10%. Or other values can be set.

If you choose to set type QoS manually. There are four modes of QoS.

- 1. **DRR mode.** We can set up four levels of bandwidth utilization and maximum bandwidth utilization for the selected control bandwidth flow direction (upload, download, or Internet up and down).
- 2. **SPQ mode.** The bandwidth utilization rate cannot be set to the selected control bandwidth flow.
- 3. **SPQ+DRR mode.** For the selected control bandwidth flow direction can only be minimum and default two levels of bandwidth usage settings.
- 4. Remark only mode. Bandwidth utilization cannot be set.

Quality of Service Settings

You may setup rules to provide Quality of Service guarantees for specific applications.			
QoS Setup			
Quality of Service	Upload to Internet	•	
Upload Bandwidth:	16M	Bits/sec	
Download Bandwidth:	20M	Bits/sec	
QoS Type:	MANUAL QoS	V	
QoS Model:	DRR	×	
Reserved bandwidth:	0%	(10% is recommanded)	
QoS Upload Group Settings			
Highest	Rate: 10%	▼ Ceil: 100% ▼	
High	Rate: 10%	Ceil: 100%	
Default	Rate: 10%	▼ Ceil: 100% ▼	
Low	Rate: 10%	▼ Ceil: 100% ▼	

2.3.7 IPv6

Turn on or off the IPv6 connection type. At present, the default is disabled, and the user can open it according to his own needs.

IPv6	
Pv6 Setup	
IPv6 Connection Type	
IPv6 Operation Mode	State IP Connection
IPv6 Static IP Setup	
LAN IPv6 Address / Subnet Prefix Length	
WAN IPv6 Address / Subnet Prefix Length	
Default Gateway	
	Apply Cancel

2.3.7 DTU

When the user sets the DTU function in the UI interface is enable. It sent and received data via RS232 serial port will be the default for IP packets. It can be achieved point-to-point transparent data transmission between single HYTTHDRM100 and server. Or achieved point-to- multiple points transparent data transmission between a server and a plurality of HYTTHDRM100. When the system is dormant, the user can also set up a heartbeat packet to maintain the link permanently online.

Data Transfer unit (DTU) Settings

You may enable/disable DTU function and configure its parameters as your v	vish.
DTU Status Option	
DTU Status	Disable
Basic Settings	
Operation Mode	Client
Transmission Protocol	тср
Serial Packet Idle Time	500 ms (range 1 - 65535, default 500)
Socket Packet Timeout	500 ms (range 1 - 65535, default 500)
Socket Buffer Length	1500 (range 100 - 1500, default 1500)
Server Settings	
Server IP/Domain Name	
Server Port	(range 1 - 65535)
Retry Interval	5000 ms (range 1 - 65535, default 5000)
Retry Count	10 (range 0 - 65535, default 10, 65535; keep trying)

Server Settings	
Server IP/Domain Name	
Server Port	(range 1 - 65535)
Retry Interval	5000 ms (range 1 - 65535, default 5000)
Retry Count	10 (range 0 - 65535, default 10, 65535: keep trying)
Heartbeat Settings	
Heartbeat Packet	
Hearbeat Interval	1000 ms (range 1 - 65535, default 1000)
Initial Packet	
Serial Settings	
Baudrate	57600
Parity	None
Data Bits	8
Stop Bits	1
Apply	/ Cancel Refresh

DTU status. It can be set DTU enable and disable.

Operator mode. Set wireless terminal device to the client or server.

Transport protocol. Select transport protocol for DTU.

The server IP address / Domain Name. Set DTU server IP address and name. **Serial port settings:** set the serial port parameters, baud rate etc.

2.3.8 SNMP

Network management. It can detect routing devices on the network. **Network management function operation mode.** disable, SNMP V1/V2 and

SNMP V3.

1. SNMP V1/V2 mode settings.

Community. SNMP community, No password is required, only a common name.

Access authority. SNMP access authority.

- 1) RO, read only.
- 2) RW, read and write.

Snmp Settings

You may enable/disable Snmp function and configure its parameters as your wish.				
Snmp Status				
Snmp Opmode	Snmprh2			
Snmp Snmp V1 And Snmp V2 Setting				
Community				
Access Authority	70			
	Analy			

2. SNMP V3 mode settings.

User name. SNMP user name.

Access authority. User authority. 1, ro (read only) 2, rw (read and write)

Authentication method. SNMP authentication protection. 1, no. 2, MD5.

3, SHA.

When selecting no of verification method. There is no need to input the verification code. And when selecting MD5 or SHA, it need fill the corresponding verification code.

Authentication code. MD5 or SHA password that enters authentication protection.

Encryption methods. Private protection mode of SNMP. 1, no 2, DES 3, AES

When selecting on of encrypting. You don't need to add a password. When selecting DES or AES. You need to add a password.

Add password: enter private protection password

Snmp Settings

M.		
You may enable/disable Snmp function and configure its parameters as your wish.		
Snmp Status		
Snmp Opmode	Snmpv3	
Snmp V3 Setting		
User Name		
Access Authority	ro	
Auth Password Encryption Algorithm	MD5	
Auth Password		
Priv Password Encryption Algorithm	AES	
Priv Password		
	Apply	

2.3.9 TR069

The WAN device management protocol can manage and configure routing devices in the home network or industrial network.

TR069 operation mode. Enable or disable function.

TR069 server. Enter TR069 server IP address.

TR069 user name. Enter TR069 user name.

TR069 password. Enter TR069 user password.

TR069 Settings

You may enable/disable TR069 function and configure its parameters as your wish.		
TR069 Status		
TR069 Opmode	Enable	
TR069 Setting		
ACS Server		
Username		
Password		
	Apply	

2.4 WIFI wireless settings.

2.4.1 Basic settings.

User can configure the WIFI general parameters here as follows.

Basic Wireless Settings			
You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting Items.			
Wireless Network			
Driver Version	4.1.0.0		
WiFi On/Off	WiFi OFF		
Network Mode	11bigin mixed mode		
Network Name(SSID)	Head_Weblink Hidden 🖾 Isolated 🖾		
Broadcast Network Name (SSID)	Enable O Disable		
AP Isolation	Enable Isable		
BSSID	C0;4A:09:15:87:D4		
Frequency (Channel)	2412/MHz (Channel 1)		

HT Physical Mode	
Operating Mode	Mixed Mode Green Field
Channel BandWidth	© 20 🔹 20/40
Guard Interval	© Long ⊛ Auto
MCS	Auto
Reverse Direction Grant(RDG)	Disable Enable
Extension Channel	2432MHz (Channel 5)
Space Time Block Coding(STBC)	Disable Enable E
Aggregation MSDU(A-MSDU)	Disable Enable E
Auto Block ACK	O Disable Enable
Decline BA Request	Disable Enable
HT Disallow TKIP	Disable Enable
HT LDPC	Disable Enable E
Other	
HT TxStream	2
HT RxStream	2
	Apply Cancel

SSID. User WIFI device name. This is a unique name, consisting of numbers and letters. It's case sensitive and length less than 32 characters.

Channel. ID from 1 to 14. In multiple wireless network, recommend different channels.

The wireless network On/off. This is a WIFI on/off button. Click button will switch to turn on or off.

The other set select the default profile can realize mobile device accessing internet.

The WIFI password is set in the security settings. Details refer to 2.4.3.

2.4.2 Advanced setting.

Advanced settings are setting the wireless network detailed parameters. Advanced settings include non-basic settings such as beacon spacing, control transfer rate, basic data transfer rate, and WIFI multimedia capabilities etc.

Usually, using system default configuration as shown below.

Advanced Wireless Settings

Use the Advanced Setup page to make detailed settings for the Wireless. Ac and Basic Data Rates.			
Advanced Wireless			
BG Protection Mode	Auto		
Beacon Interval	100	ms (range 20 - 999, default 100)	
Data Beacon Rate (DTIM)	1	ms (range 1 - 255, default 1)	
Fragment Threshold	2346	(range 256 - 2346, default 2346)	
RTS Threshold	2347	(range 1 - 2347, default 2347)	
TX Power	100	(range 1 - 100, default 100)	
Short Preamble	Enable Disable		
Short Slot	Enable Disable		
Tx Burst	Enable Disable		
Pkt_Aggregate	Enable O Disable		
IEEE 802.11H Support	C Enable Disable(only	r in A band)	
Country Code	None		
Support Channel	Ch1~14		
Wi-Fi Multimedia			
WMM Capable	Enable Disable		
APSD Capable	Enable I Disable		

Apply	Cancel

WMM Configurat

2.4.3 Security setting.

Including OpenWEP,WPA,WPA-PSK,WPA2,WPA-PSK and other encryption methods. System default setting is no password. User can select the encryption mode. Also can set up your WIFI password.

For example. The 1:802.1X security mode.

WMM Parameters

Wireless Security/Encryption Settings		
Setup the wireless security and encryption to prevent from unauthorized access and monitoring.		
Select SSID		
SSID choice	Head_Weblink	
"Head_Weblink"		
Security Mode	802.1X	
802 1 v WEP		
WEP	Disable Enable	
Radius Server		
IP Address	0	
Port	1812	
Shared Secret		
Session Timeout	0	
Idle Timeout		
Access Policy		
Policy	Disable	

Radius IP address. Radius server IP address.Port. Radius. Port of authentication serverShare key. Share key of Radius authentication server.

Example 2. WPA2-PSK security mode.

Wireless Security/Encryption Settings				
Setup the wireless security and encryption to prevent from unauthorized access and monitoring.				
Select SSID				
SSID choice	lest_host v			
"test_host"				
Security Mode	WPA2-PSK •			
WPA				
WPA Algorithms	◎ TKIP ③ AES ◎ TKIPAES			
Pass Phrase	1234w5678			
Key Renewal Interval	3600 seconds (0 ~ 4194303)			
Access Policy				
Policy	Disable •			
Add a station Mac:				
	Apply Cancel			

WPA-PSK/WPA2-PSK is the type of encryption that we set up usually. It's high performance of this encryption type. Also it is very easy to setup. But it's important to note that it has three encryption algorithms, AES, TKIP and TKIPAES.

If user want to achieve mobile device access the Internet via WIFI.It can do the following configuration.

Security mode. Select WPA2-PSK.

WPA algorithm. Select AES.

Password. Can be set by yourself. Usually, default password is 12345678. The choice of the default configuration, click OK to set successfully.

2.4.4 Terminals list.

You can see the client information of the current connection via WIFI in the list.

Station List							
You could monitor stations which associated to this AP here.							
wireless network							
MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC
A0:18:28:E0:EB:2A	1	1	0	7	20M	0	0

2.4.5 Wireless statistical data.

Looking at the statistics sent and accepted via WIFI. Also you can reset the counters and reset the statistics.

AP Wireless Statistics		
Wireless TX and RX Statistics		
Transmit Statistics		
Tx Success	4714	
Tx Retry Count	0, PER=13.8%	
Tx Fail after retry	754, PLR=1.4e-01	
RTS Sucessfully Receive CTS	0	
RTS Fail To Receive CTS	0	
Receive Statistics		
Frames Received Successfully	70208	
Frames Received With CRC Error	89622, PER=56.1%	
SNR		
SNR	34, n/a, n/a	
	Reset Counters	

2.5 Firewall.

2.5.1 MAC/IP/Port filter.

Foundation setting.

This page is the firewall of each filter function to open and close settings. Only when the total filter switch of the firewall is enabled. The subsequent "MAC address filtering", "port filtering" and "IP address filtering" will be effective. Otherwise, the failure will be invalid.

Default rules option.

Setting default rules can discard or accept packets that are not in conformity with the rules.

MAC/IP/Port Filtering Settings						
You may setup firewall rules to protect your network from virus, worm and malicious activity on the Internet.						
Basic Settings						
MAC/IP/Port Filtering	Disable					
Default Policy The packet that don't match with any rules would be:	Dropped					
	Apply Reset					

MAC/IP/Port filter setting.

The origin of MAC address. The MAC address of the computer you want to control.

The target of IP address. The downlink IP address you want to control.

The origin of IP address. The upstream IP address you want to control.

Protocol. Options are as follows.Such as None, TCP, UDP, ICMP etc. You want to filter the protocol.

The target of ports range. The downstream port range that you want to control.

The origin of ports range. The downstream port range that you want to control.

Execute action. You need to select accept or discard for the operation of this setting.

Note. How do you explain the filter settings?

MAC/IP/Port Filter Settings	
Source MAC address	
Dest IP Address	
Source IP Address	
Protocol	None
Dest Port Range	•
Source Port Range	·
Action	Accept
Comment	
(The maximum rule count is 32.)	

MAC/IP/Port filtering rules for current systems.

You can see filter rules for each number and perform delete and reset operations.

Apply Reset

Current MAC/IP/Port filtering rules in system:									
No.	Source MAC address	Dest IP Address	Source IP Address	Protocol	Dest Port Range	Source Port Range	Action	Comment	Pkt Cnt
Others would be dropped								-	
			Delete Se	lected	Reset				

2.5.2 System security setting.

This page can set up a system firewall to protect the router or the wireless access point itself.

Remote management.

Allow and prohibit remote management of routers through wide area networks. And specify remote management hosts IP and ports.

Remote management	
Remote management (via WAN)	Deny
Host IP	0.0.0/0
Port	80 (range 1 - 65535)

PING packet filtering over wide area networks.

Allows and prohibits access to routers over Wan PING packet.

Ping form WAN Filter	
Ping form WAN Filter	Disable v

Port scannig.

Port scanning enable or disable.

Block Port Scan	
Block port scan	Disable

SYN FLOOD attack.

Block SYN flood attack enable or disable.

Block SYN Flood	
Block SYN Flood	Disable v
Packet state detection(SPI)	
SPI firewall enable or disa	ble.
Stateful Packet Inspection (SPI)	
SPI Firewall	Disable .

Apply Reset

2.5.3 Content filtering.

Content filtering settings can set filter rules to limit inappropriate web content. Page content filtering: you can filter proxy servers, Java pages, and ActiveX plug-in page content.

Webs Content Filter	
Filters:	Proxy 🖾 Java 🖾 ActiveX
	Apply Reset

Page URL filter setting.

The current system of web page URL filtering rules: you can see the filter rules of the URL and its number. And can choose the corresponding number of URL delete and reset.

New URL filtering rules.

You can add URL that you want to filter.

Webs URL Filter Settings							
Current Webs URL Filters:							
No			URL				
		Delete		Reset			
Add a URL filter:							
	URL:						
		Add		Reset			

Web host filter settings.

The current system of web host filter rules. You can see key words and numbers in the web host filter rules of the routing system. And can be selected to delete and reset the operation

Current system web host filter rules.

You can add new web host keywords that need filtering.

Webs Host Filter Settings

Current Website Host Filter	s:			
No	Host(Keyword)			
		Delete	Reset	
Add a Host(keyword) Filter:				
	Keyword			
		Add	Reset	

2.5.4 Port forwarding.

Port forwarding can transfer the external network port to another internal network node for external network connection.

Port forwarding. Can be enable or disabel.

IP address. IP address to be forwarded.

Ports range. Ports to be forwarded.Protocol. Three protocol packets can be forwarded.

1) TCP&UDP.

2) TCP.

3) UDP.

Note: Comment on the set of virtual servers.

The port forwarding of the current system can view the number, IP address, port range, protocol and annotation to be forwarded. And the corresponding number can be selected to delete and reset the operation.

Virtual So	erver Settings			
You may setup				
Port Forwarding				
	Port Forwarding	Disable		
	IP Address			
	Port Range	•		
	Protocol	TCP&UDP v		
	Comment			
(The maximum rule count is	s 32.)			
		Apply Reset		
Current Port For	warding in system:			
No.	IP Address	Port Range	Protocol	Comment
		Delete Selected Reset		

Virtual server.

Virtual server. Enable or disable the virtual server function.

IP address. Virtual server's IP address.

Public port. Can be set to be accessed the port from wide area network users.

Private port. Can be set to private LAN access port.

Protocol. Virtual server transmission protocol

Note. Remarks for this virtual server.

The virtual server of the current system can view the IP address, common port, private port, protocol, annotation and its corresponding number of the virtual server of the current system. And can selected to delete and reset the operation.

Virtual Server								
		Virtual Server	Disable	•				
		IP Address						
		Public Port						
		Private Port						
		Protocol	TCP&UDP	v				
		Comment						
(The maximum rule co	he maximum rule court is 32.)							
			Apply	Reset				
Current Virtua	Current Virtual Servers in system:							
No.	IP Address	Public Port		Private Port		Protocol	Comment	
		0	elete Selec	cted Reset				

2.5.5 Port triggering.

Port triggering is when an application specifies a port to open an input connection. The router will transfer an external connection to an internal designated port (transport port). The port ranges from 5000 to 6000.

Trigger protocol. The protocol triggered by a desired port.

Trigger port. Port number triggered by the desired port.

Incoming protocol. The incoming protocol triggered by the desired port .

Incoming port. The incoming port number triggered by the desired port.

Note: Remarks on rules for port triggered settings.

Port trigger of current system.

We can check the trigger service number, trigger protocol, trigger port, import protocol, import port and annotation. And select the corresponding number to execute delete and reset operation.

Port Trigger Setting

You ma	ay setup Port Trigger services on Internet.					
Port Trigg	ger					
		Port Trigger	Disable			
		Trigger Protocol	TCP			
		Trigger Port				
		Incoming Protocol	TCP	w		
		Incoming Port				
		Comment				
[The maximum n	ule count is 32.)		Apply	Reset		
Current P	ort Trigger in system:					
No.	Current Trigger Protocol	Current Trigger Por	t	Current Incoming Protocol	Current Incoming Port	Comment
Delete Selected Reset						

2.5.6 DMZ

DMZ can be understood as the network from outside the pass through. It will put all the ports open to the network on your computer.

DMZ setting. DMZ can set to be enable or disable.

DMZ address. Please set the internal IP address for the DMZ host.

DMZ Settings	
You may setup a De-militarized Zone(DMZ) to separate internal network and	
DM7 C-Hi	
DMZ settings	
DMZ Settings	Enable
DMZ IP Address	
	Except TCP port 80
	Apply

2.6 SMS setting.

2.6.1 Inbox.

Inbox. Inbox can see the messages received of SIM card.

Inbox setting. Inbox functions can be enabled or disable.

Inbox list. You can view the received SMS sender, message content and delivery time. And you can choose to delete and refresh.

SMS Inbox

You can take a look at the short messages rec	eived by the SIM card.		
SMS Inbox Setting			
	SMS Inbox	Disable	
		Apply	
Inbox List			
Sender	Content		Time
		Delete Refresh	

2.6.2 Send SMS.

You can send text messages here. And edit SMS recipient,SMS content and send.

Send Message	
You can send short messages here.	
Edit a message	
Receiver	
Content	
	Apply Cancel

2.6.3 Advanced setting.

Advanced settings can set SMS automatic reporting and control command parameters.

Set the automatic report / SMS control command function to enable and disable.

Advanced						
You can setup SMS auto report and control comm	and parameters	s here.				
Advanced Settings						
Auto Report/SMS Control Command	Disable	Ŧ				
	Apply	Cancel				

2.7 DDNS

DDNS settings can configure DDNS connection types and related parameters here.

DDNS connection type. DDNS operation mode is disable, peanut shell, noip.

Only when you have peanut shell and noip account number that you can use DDNS service.

DDNS state. Check existing DDNS running mode and running state.

DDNS Setting						
You may enable/disable DDNS function and configure its parameters as your wish.						
DDNS Connection Type						
DDNS Operation Mode	disable •					
	Apply					
DDNS Status						
ddns setting mod						
ddns setting Status						

2.8 GPS information.

2.8.1 GPS status

This page allows you to view GPS status information here. The premise is to assemble the GPS antenna and enable the GPS function.

Positioning status. A, effective location. V, invalid location. Disable, GPS function is disabled.

Positioning date. The date of the last GPS positioning.
Positioning time. The last time of GPS positioning.
Longitude. The longitude of the last GPS location.
Latitude. The latitude of the last GPS location.
Speed. The speed of the last GPS positioning.
GPS operation mode. GPS function can be turned on or off.

GPS Status

You can take a look at information of GPS	
GPS status	
Status	Disable (A:effective positioning V:invalid positioning Disable: Operation state disable)
Date	
Time	
Latitude	
Longitude	
Speed	
GPS Operation Mode	Disable
	Apply

2.8.2 GPS information setting.

This page can upload GPS status information to the specified server.

Destination server. Server to receive GPS status information.

Port number. Port of receiving information service.

Sending interval (s). The time interval for uploading GPS status information.

Protocol. The selected protocol for uploading GPS information.

Upload status. The status of uploading GPS information at this time.

GPS Information Setting

You can upload information of GPS here.						
GPS Information Setting						
Server						
Port						
Transport Interval (s)						
Protocol	UDP •					
Status	Upload stopped					
	Upload					

Stop

2.9 System management.

2.9.1 Management.

System management interface can set the system administrator password, and network time and module settings.

Language settings. You can choose Chinese simplified, traditional Chinese and English

System Management							
You may configure administrator account an	You may configure administrator account and password, NTP settings, and Dynamic DNS settings here.						
Language Settings							
Select Language	English	•					
	繁體中文 简体中文	Cancel					

Manager settings. You can set or modify the router administrator's account number and password.

Adminstrator Settings				
Account	admin			
Password				
A	pply	Cance	el de la compañía de	

Network time settings. You can view the current system time. Also you can set host synchronization to update the time, set the system time zone, set the network time server, and Calibrating network time in hours.

NTP Settings	
Current Time	Fri Oct 20 11:09:38 UTC 2017 Sync with host
Time Zone:	(GMT-11:00) Midway Island, Sa 🔻
NTP Server	ex: time.nist.gov ntp0.broad.mit.edu time.stdtime.gov.tw
NTP synchronization(hours)	
A	pply Cancel

Module setting.

The automatic restart function module.Enable and disable selectionAutomatic restart time interval (Hour).Restart time interval

Module Settings					
Module Auto Reboot	Disable	•			
Auto Reboot Interval (hours)	24				
	Apply	Cancel			

Restart the router. Can reboot the router immediately.

Router Reboot	
Reboot	Reboot

2.9.2 Firmware upgrade.

Firmware update page, upload update firmware takes about 1 minutes. Please be patient. Warning!

Abnormal Image will interrupt system operation.

Upgrade mode has local upgrade and remote upgrade. Generally default to local upgrade.

Firmware upgrade. Click on the selection file, select the firmware version file you want to upgrade. And then confirm and wait for the system to restart, you can upgrade successfully.

Upgrade Firmware		
Digrade the Head Weblink firmware to obtain new functionality. It takes about 1 minute to upload upgrade flash and be patient please. Caution! A corrupted image will hang up the system.		
Upgrade Way	Local Upgrade	
Update Firmware		
Location:	[] 湖遼 未选择文件。	
	Apply	

2.9.3 Setting management.

Setting management can save system settings by exporting settings. Or restoring system settings by importing settings, and even resetting default values to the system.

Settings Management

You might save system settings by exporting them to a configuration file, restore them by importing the file, or reset them to factory default.		
Export Settings		
Export Button	Export	
Import Settings		
Settings file location	派派 未送孫文件。	
	Import Cancel	
Load Factory Defaults		
Load Default Button	Load Default	

2.9.4 System status.

The system information, Internet configuration and LAN status information of the routing platform can be seen on this page.

System Status

Let's take a look at the status of Head Weblink Platform.		
System Info		
Kernal Version	2.6.36 (Oct 24 2017)	
System Up Time	2 hours, 41 mins, 36 secs	
System Platform	RT2880 embedded switch	
Operation Mode	Gateway Mode	
FW Version	V21	
Modification Times	2017-10-23 17:09	
Internet Configurations		
Connected Type	DHCP	
WAN IP Address	192.168.1.5	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.1.1	
Primary Domain Name Server	192.168.1.1	
Secondary Domain Name Server	192.168.1.1	
MAC Address	C0:4A:09:15:87:D5	

Local Network		
Local IP Address	192.168.0.1	
Local Netmask	255.255.255.0	
MAC Address	C0:4A:09:15:88:98	

2.9.5 Statistical information

You can view platform statistics, such as memory, Wan, LAN, and all interface information.

Statistic

Take a look at the SIMCOM SoC statistics		
Memory		
Memory total:	59120 kB	
Memory left:	21752 kB	
WAN/LAN		
WAN Rx packets:	223883	
WAN Rx bytes:	246550913	
WAN Tx packets:	117360	
WAN Tx bytes:	8811614	
LAN Rx packets:	132940	
LAN Rx bytes:	8735939	
LAN Tx packets:	197169	
LAN Tx bytes:	261434623	
All interfaces		
Name	eth2	
Rx Packet	357025	
Rx Byte	261129077	
Tx Packet	314517	
Tx Byte	270706226	
Name	imq0	
Rx Packet	179479	
Rx Byte	243561106	
Tx Packet	179479	
Tx Byte	243561106	
Name	imq1	
Rx Packet	109558	
Rx Byte	6598312	
Tx Packet	109558	
Тх Вуте	6598312	
Name	rað	
Rx Packet	5385	

2.9.6 System comman.

Execute a system command as root. And you can view the results of the implementation of feedback, or repeat last instruction operation.

System Command

😫 Run a system command as root:				
System command	System command			
	Command:	ifconfig		
bd Link encap Ethernet HWaddr C0:4A/94:1587.D4 Inet addr 102:1680.101 Ecast 102:1680.2555.Mask.2555.255.0 In: B BOACOAST RUNNING MULTICAST INTU-1550. Mehrc: 1 RX packets:118096 errors:0 dropped:0 overruns:0 frame:0 TX packets:1180274 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 brouwellen:0 RX ptws:2724020(16.9 MMID; TX ptws:252110427 (240.4 MB)				
etb2. Linki encape Etherneti Hillidadi CD 44:00 15:87D.4 iulifi dadi teb:07:428 01fth;274495 Coppet Linki UP BROADCAST RIUNINIO MULTICAST ITTU-1500 Letter: 1 RX packets 25930 encros Odroped 0 overnus 0 camier: 0 TX packets 23316 encros 0 droped 0 overnus 0 camier: 0 colisions 0 brugueulein 1000 RX bytes 25499131 (24.31 MIB) TX bytes 261360439 (249.2 MIB) Interrupt 2				
eth2.1 Link encap Ethernet HWaddr C0:4A.09.15.87.D4 inet6 addr: fe80::c24a:9ff.e15:87.04/64 Scope Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1				
Αρρίγ				
Repeat Last Command				

2.9.7 System log.

You can view the system log . And refresh or clear the current record.

/stem Log			
	Refresh	Clear	
System Log			
Oct 20 96: 34:42 Weblink syslog info syslog 16 Oct 20 95: 34:42 Weblink kern, notice kernel k Oct 20 95: 32: 22 Weblink kern, warn kernel 16 Oct 20 99: 32: 22 Weblink kern warn kernel 16 Oct 20 99: 32: 25 Weblink kern warn kernel 16 Oct 20 99: 32: 27 Weblink kern warn kernel 16 Oct 20 99: 32: 27 Weblink kern warn kernel 17 Oct 20 10: 32: 22 Weblink kern warn kernel 17 Oct 20 10: 32: 22 Weblink kern warn kernel 17 Oct 20 10: 32: 22 Weblink kern warn kernel 17 Oct 20 10: 32: 28 Weblink kern warn kernel 17 Oct 20 10: 32: 28 Weblink kern warn kernel 17 Oct 20 10: 32: 28 Weblink kern warn kernel 17 Oct 20 10: 32: 28 Weblink kern warn kernel 17 Oct 20 10: 32: 28 Weblink kern warn kernel 17 Oct 20 10: 35: 26 Weblink kern warn kernel 17 Oct 20 10: 35: 56 Weblink kern warn kernel 17 Oct 20 10: 55: 56 Weblink kern warn kernel 17 Oct 20 10: 55: 56 Weblink kern warn kernel 17 Oct 20 10: 55: 56 Weblink kern warn kernel 17 Oct 20 10: 55: 56 Weblink kern warn kernel 17 Oct 20 10: 55: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 54 Weblink kern warn kernel 17 Oct 20 10: 35: 32 Weblink kern warn kernel 17 Oct 20 10: 35: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink user err syslog: ERR Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Weblink kern warn kernel 17 Oct 20 11: 32: 32 Web	larted: BusyBox v1.12.1 opd started: BusyBox v1.12.1 (2017-09-14.1 090 started: BusyBox v1.12.1 (2017-09-14.1 090 st6600) AP SETKEYS DONE - WPA2, 091 st66000 Y11.048000 [MtAsicAddSharedKeyEntry(13 O: MRT_INIT failed; Ermo(99); Protocol not O: MRT_INIT failed; Ermo(99); Protocol not 0: MRT_INIT failed; Ermo(99); Protocol not 0: MRT_INIT failed; Ermo(99); Protocol not 0: MRT_INIT failed; Ermo(99); Protocol not 1510.160000] MtAsicAddSharedKeyEntry(13 O: MRT_INIT failed; Ermo(99); Protocol not 141.990000; Send DEAUTH - Reason = 3 ft 1610.540000; Start Seq = 00000000 1610.560000; AP SETKEYS DONE - WPA2, 1610.56000; AP SETKEYS DONE - WPA2, 111.976000; AP SETKEYS DONE - WPA2, 111.976000; AP SETKEYS DONE - WPA2, 111.970000; AP SETKEYS DONE - WPA2,	1-22-17 CST) available AuthMode(7)=WPA2PSK, WepStatus(6)=AES, GroupWepStat 43): Not support for HIF_MT yet! available AuthMode(7)=WPA2PSK, WepStatus(6)=AES, GroupWepStat 43): Not support for HIF_MT yet! available 300-sec Sience ame TO a0 18 28 e0 eb 2a CAP AuthMode(7)=WPA2PSK, WepStatus(6)=AES, GroupWepStat available AuthMode(7)=WPA2PSK, WepStatus(6)=AES, GroupWepStat 43): Not support for HIF_MT yet! available	us(6)=AES us(6)=AES us(6)=AES us(6)=AES

Chapter 3 Environmental performance.

Item	Specifications
Storage temperature	-40℃~+85℃
Working temperature	-30℃~+75℃
Working humidity	5%~90% (Non condensation)

HYTTHDRM100 4G router environmental performance.