

Router Series EX-9632R-H/EX-9633R-H User Manual

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Revision History

Version	Date	Comments	Author
2.00	2012-06-30	Initial Release Version	Carter Lee



Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as this device are used in a normal manner with well-constructed network, this device should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. This device accepts no responsibility for damages of any kind resulting from delays or errors in data transmission, or for failure of this device to transmit or receive such data.

Safety and Hazards

Do not operate this device in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, near life support equipment, or any equipment which may be susceptible to any form of radio interference. In such areas, this device MUST BE POWERED OFF. This device can transmit signals that could interfere with this equipment. Do not operate this device in any aircraft, whether the aircraft is on the ground or in flight and it MUST BE POWERED OFF when in an aircraft. When operating, this device can transmit signals that could interfere with various onboard systems.

> Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is opened.

The driver or operator of any vehicle should not operate this device while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.



Limitations of Liability

This manual is provided "as is". We makes no warranties of any kind, either expressed or implied, including any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The recipient of the manual shall endorse all risks arising from its use.

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Overview

This device is a 2G/3G router which compliance to GSM/GPRS/EDGE/WCDMA/HSPA or EVDO/TD-SCDMA network and shares the network to other devices. This capability means that remote and mobile devices can attach to Internet hosts using the public wireless networks.

Router series is easy to install, reducing the reliance on the end customer and enables direct access to your remote LAN devices for controlling and monitoring purposes.

It enables companies to access equipment of mobile remotely, remote networks and isolated sites

This router is seeking reliable, flexible and cost-effective data channel to build their information system. Many applications such as ATM, POS, SCADA and surveillance system will require data channels covered all over the country; this brings a bright future for mobile data networks applications.

APN	Access Point Name
DAC	Digital Analog Converter
GGSN	Gateway GPRS Support Node
GPRS	General Packet Radio Service
IP	Internet Protocol
КВ	Kilobyte
MCC	Mobile Country Code
MNC	Mobile Network Codes
MS	Mobile Station
PDU	Protocol Data Unit
PLMN	Public Land Mobile Network
RSSI	Received Signal Strength Indication
SMA	Small Adapter
SMS	Short Message Services
CDMA	Code Division Multiple Access
RIP	Routing Information Protocol

Abbreviations



OSPF	Open Shortest Path First
QoS	Quality of Service
DNS	Domain Name System
DDNS	Dynamic Domain Name Server
DHCP	Dynamic Host Configuration Protocol
NAT	Network Address Translation
DMZ	Demilitarized Zone
PPP	Point to Point Protocol
РРТР	Point to Point Tunneling Protocol
UIM	User Identity Model
VPN	Virtual Private Network



Brief of Mobile Network

2G

2G (or 2-G) stands for second-generation wireless telephone technology. Second generation 2G cellular telecom networks were commercially launched on the GSM standard in Finland by Radiolinja (now part of Elisa Oyj) in 1991. Three primary benefits of 2G networks over their predecessors were that phone conversations were digitally encrypted; 2G systems were significantly more efficient on the spectrum allowing for far greater mobile phone penetration levels; and 2G introduced data services for mobile, starting with SMS text messages.

2.5G

2.5G ("second and a half generation") is used to describe 2G-systems that have implemented a packet-switched domain in addition to the circuit-switched domain. It does not necessarily provide faster services because bundling of timeslots is used for circuit-switched data services (HSCSD) as well.

The first major step in the evolution of GSM networks to 3G occurred with the introduction of General Packet Radio Service (GPRS). CDMA2000 networks similarly evolved through the introduction of 1xRTT. The combination of these capabilities came to be known as 2.5G.

3G

3G or 3rd generation mobile telecommunication is a generation of standards for mobile phones and mobile telecommunication services fulfilling the International Mobile Telecommunications-2000 (IMT-2000) specifications by the International Telecommunication Union. Application services include wide-area wireless voice telephone, mobile Internet access, video calls and mobile TV, all in a mobile environment. To meet the IMT-2000 standards, a system is required to provide peak data rates of at least 200 Kbit/s. In recent 3G releases, often



denoted 3.5G and 3.75G, also provide mobile broadband access of several Mbit/s to smartphones and mobile modems in laptop computers.

Features

- Industrial design for small dimension
- Robust industrial housing
- Secure remote access Support for up to 4 simultaneous VPN tunnels 6 Mbps 3DES VPN throughput
- SPI/VPN Firewall
- NAT Router for Internet Access Sharing
- 1 10/100 LAN port
- 250Mhz CPU with hardware-based encryption accelerator
- DC5~25V wild rang, low power consumption
- Watch Dog

Specification

Product	Network		Work Temp	Humidity	Size	Weight
EX-9632R-H	GSM	850MHz	-10 ~ +65°C	5 ~ 90%	100x60x25mm	240g
		900MHz				
		1800MHz				
		1900MHz				
	WCDMA	850MHz				
		1900MHz				
		2100MHz				
EX-9633R-H	EV-DO	800MHz	-10 ~ +55°C	5% 95%		
	Rev. A					

Application

• POS terminals and scanners



- Vending machines
- Security systems
- Remote telemetry and telematics systems
- Fleet management and tracking systems
- Traffic control and navigation systems
- Remote Data Monitor and Control
- AMR (automatic meter reading) for power, water, gas, oil meter
- Power station monitoring and control
- Traffic signals monitor and control
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)



Interface

LED	Description	
Reserve	OFF	Reserved
PWR	ON	Device starting
	Blink	Device running
LAN	ON	RJ45 connected
	OFF	RJ45 absent
VPN	ON	VPN connected
	OFF	VPN absent
CELL	ON	Cell module running
	OFF	Cell module starting
Online	ON	Network registered
	OFF	Network registering

Interface	Description		
Antenna	50Ω/SMA/Female	• EXPERT	
Reset Hole	Reset the device		
Jumper Upper Only	Modem mode	A Contract of the contract of	
Jumper Lower Only	Router mode	55555	
USB jack	Connect to PC (modem mode)		
RJ45	Network cable interfa	ace	
Power	Φ5.5mm/2.5mm , 5~	25V (standard 12V)	
Serial Port	DB9 (for DTU mode)		
SIM	3.3V/1.8V		



Web Interface

Login

Default login address: http://192.168.0.254:10000 Default user name: admin Default password: 888888

			×
	[Lo	gin]	
	User Name:	admin	
	Password:		
		Login	
完成		Internet	🖓 🕶 🔍 100% 👻 🌈



System Info

Router system information includes network status, firewall status and VPN status.

	System status and settings					⊗ exit
router	System Information	i.				1
PORT	Serial NO		002233445566	System load	0%	
NETWORK	Firmware Version		6.53	System	0Day0Hour7Min3Sec	
VPN	Enable IP Pa	asthrough	1	TIRE		
TRAFFIC DTU	Network Setting Sta	itus				
NODEM WITZARD	LAN IP Address WAN1 IP Address	192.168.0.254 Dialing [R	efrezh]			
LOG	WAN2 IP address	Close				
REBOOT	DDNS	C Enable @ 1	221 179 38 7			
LOGOUT	Network Mode	Gateway				
	Firewall Setting Sta	itus				
	Filter DoS Attack	G Enable C	Disable			
	Filter IP Attack	@ Enable @	Disable			
	Sessions	10				
	VPN Setting Status	r.				
	Ipsec Tunnel Number				0	
	PPTP has assigned	IP			0	

System Information

Serial NO	device serial number
System load	system CPU load
Firmware Version	device firmware version
System active time	system running time

Network Setting Status

LAN IP Address	device LAN IP address
WAN1 IP Address	device WAN IP address
DDNS	dynamic domain name service
DNS	domain name service
Network Mode	device work mode



Firewall Setting Status

Enable	enable the firewall
Filter DoS Attack	filter DoS attack
Filter IP Attack	filter IP attack
Sessions	currently connecting sessions

VPN Setting Status

IPSec Tunnel Number	number of IPSec tunnel
PPTP has assigned IP	assigned IP for PPTP



Port

WAN

The device supports PPP for 3G network and Static IP, PPPoE, DHCP for Ethernet WAN. The schedule

The scheduling selection also on this page named "Time Schedule". Use this function to configure the plan when this device will get online or offline.

WAN C	WAN Port WAN 1 WAN Setting PPP (modem) COM COM
LAN VLAN VLAN VLAN FIREWALL VPN SERVICE TRAFFIC DTU MODEM VIZZARD LOG PASSWD REBOOT LOGOUT	WAN Port WAN 1 WAN Setting FPP(moden) COM COMO Username: CARD Password:
	Bandwidth(kbit/s) Upstream: 500 Downstream: 2048 MAC Clone: WAN port's Static routing Static routing Stati

The setting for connecting 3G network is different from ISP to ISP. Consult to your ISP provider for following information: user name, password, dial number and APN string. Be sure of the correctness of these information or you won't get this device connecting to 3G network. Following table is the required information if the ISP is Chunghwa Telecom Co.,Ltd.

User Name	
Password	
Band Rate	115200



Dial Number	*99***1#
AT String	AT+CSQ OK AT+CGDCONT=1,"IP","INTERNET" OK

LAN

Click on the "LAN (edit)" of this page, you will able to configure LAN setting, including router LAN IP, LAN subnet and LAN mask.

USER:	LAN Setting			(exit)
	LAN Name LAN (edit)	IP Address 192. 168. 0. 254	Subnet Mask 255, 255, 255, 0	
FIREWALL VPN SERVICE TRAFFIC DTU MODEM WIZLARD LOG PASSWD REBOOT LOGOUT	Broadcast arp in Apply Reboot	nformation(Prevent arp cheat) speed	f/s(1-30)	
N			🕞 Internet	



USER: • router • System Info • PORT • NETWORK • FIREWALL • VPN • SERVICE • TRAFFIC DTU • MODEM • WIZZARD • LOG • PASSWD • REBOOT • LOGOUT	LAN Setting	IP Address Subnet Wask WAC Address	192.168.0.254 255.255.255.0 00:22:33:44:55:66 Apply	© exit

WLAN

The WIFI setting not support by EX-9632R-H/EX-9633R-H. Just ignore it.

ystem Info Wireless Setup		
RT 🗖 start		
LAN Openration mode	AP X	
TWORK		
IREWALL		
PN Encryption mode	none 💌	
ERVICE hidden		disables broadcasts the ssid
TU ODEM isolate IZZARD	c	Isolation is a mode usually set on hotspots that limits the clients to communicate only with the AP and not with other wireless clients
ASSWD		Save
GOUT		



Network

DHCP

	DHCP Setting			(exit
 Fouter System Info PORI NETWORK DHSADDNS Static Routing VLAN Mac/IP bind FIREWALL VPN SERVICE TRAFFIC DTU MODEM MODEM 	IF DHCP Server □ Auto apply to the IP Gateway IP DNS Beginning LAN IP address Ending LAN IP address LAN subnet mask Apply	which is binded with MAC address.	(optional) (optional)	
LOG PASSWD REBOOT LOGOUT			Internet	Fa • 1,100% •

DHCP Setting

enable the DHCP server
which is bound with MAC address use the rule of IP and MAC
bind
Gateway IP address (option)
DNS IP address (option)
the begin of DHCP IP address pool
the end of DHCP IP address pool
the LAN subnet mask

LAN Subnet Mask the LAN subnet mask



DNS&DDNS

For DDNS, please reference Appendix A for an example.

OSENI (DNS Setting	(a) exi
outer	<u></u>	
System Info PORT	Due route	1
NETWORK DHCP DNSADDNS Static Routing	DNS server	
Mac/IP bind	DDNS Setting	
FIREWALL VPN SERVICE TRAFFIC DTU MODEM WIZZARD LOG DASCED	DDNS Server Host Name (none) User name Password Enable C Yes C No	
REBOOT LOGOUT	Apply	

DNS and DDNS setting

DNS Server	manual setting the IP address of DNS primary server and the secondary
	server
DDNS Server	the dynamic domain name server selection.
Host Name	the DDNS host name.
User Name	the DDNS username
Password	the DDNS password
Enable	enable or disable the DDNS function

Static Routing

This page contains the list of static routing rules. Click on the **Add** button will allow you to add a new rule.



on IP	Subnet Mask	Default Gateway	Operation	
Page: 1/	/0	FrevEage Rext	Page Add	
1				
	on IP 3	on IP Subnet Mask Page: 1/0	on IP Subnet Mask Oefault Gateway Page: 1/0 PrevPage Rext	on IP Subnet Mask Default Gateway Operation Page: 1/0. PrevPage RextPage Add

 Fouter System Info PORT WAN LAN WLAN METWORK FIREWALL VPN SERVICE TRAFFIC DTU MODEM WIZZARD LOG PASSWD REBOOT LOGOUT 	Input Static Routing Destination IP Address Subnet Mask Default Gateway	 ply Cancel	
成		S Internet	· + 100% ·

VLAN

This page contains the list of VLAN rules. Click on the Add button will allow you to add a



new rule.

	VLAN Setting					🛞 exit
Pouter System Info PORT DNEWORK DHCP DNSADDNS Static Routing VLAN Mac/IP bind FIREWALL VPN SERVICE TRAFFIC DTU MODEM WIZZARD LOG PASSWD REBOOT LOGOUT		Network Address Page:	Subnet Mask	Network Por	t Operation RextPage Add	
完成					internet	v ₀ • € 100% •

USEX: • FOUTEF • System Info • PORT • VAN • NEIWORX • FIREWALL • VPN • SERVICE • TRAFFIC • DTU • MODEM • VIZARD • LOG • PASSWD • REBOOT • LOGOUT	Add VLAN	Network Address Submet Mask Network Port		Apply Cancel	(exit
完成			 	Internet	

Add VLAN

Network Addressthe VLAN network addressSubnet Maskthe VLAN subnet mask



Network Port the VLAN port, only the LAN

MAC/IP Bind

Setting of MAC and IP address binding. Follow the hints to add a new MAC-IP address binding rule.

ARP table button is also in this page for showing the ARP list currently saved/used by this device.

	LAN IP binding			🛞 exit
router System Info	1	Enable		
NORI NETWORK DHCP DNSADDNS Static Routing VLAN Nac/IP bind FIREWALL VPN SERVICE TRAFFIC DUU MODEM VIZZARD LOC		Binded IP	192.168.0.117 00:E0:4D:AE:BF:47 Bind one LAN IP address to MAC address, e.g.: 192.168.0.117 00:E0:4D:AE:BF:47 Indicates we bind IP address 192.168.2.2 to MAC address 192.168.2.2 to MAC address 192.168.2.2 to MAC address 100:00:20:A0:FP:AC. Remember to keep blank space between the two addresses. One entry for each line. Click below "app-table" Image: table table Image: table table Image: table table Image: table table	
PASSWD REBOOT LOGOUT			Save	



Firewall

Options

Settings of firewall rule.

- IVATOL /			// •
🛅 System Info	Attacks Prevention Option		-
PORT	Filter SYN attack	Threshold: p/s	Filtered :
 FIREWALL 	Filter UDP attack	Threshold: p/s	Filtered :
Options	🔽 Filter Ping of Death attack	Threshold: p/s	Filtered :
TimeSchedule IP Manage	🔽 Filter Tear Drop attack		Filtered :
Port Manage	Filter IP Spoofing attack		Filtered :
IP Map	Precaution on common attacks		Filtered :
Strategy	Prohibit Ping from external network	c .	
• VPN	Newly-added connections/sec/user	Max: (10-40)	Filtered :
SERVICE	🗖 Maxi concurrent sessions per user	Max: (100-400)	Filtered :
TRAFFIC	Enable warning log		
MODEM	🗖 lan 10M		
VIZZARD	GPS	GPS PORT: COM2 -	
PASSWD	🗆 NAS		
EBOOT LOGOUT	The center ip:		
	The center port:		
	The p_wmap:		
	Webserver port:	10000	
	The log server address:		
	The ppp heart beat address:		
	The sms white list:	(split with bl	ank)
	The sms dail up string :		
	The sms dail down string :		
	The sms dail down bandwidth:	(kbyte/s)	-
完成		Search Internet	🖓 • 🔍 100% • 🏾

Time Schedule

This page allows you to configure your plan about when this device will get online or offline. The plan or plans are configured here first and enable by the "System Info" and firewall "**Strategy**" page.



USER:	Timetable						⊗ exit
 Fouter System Info PORT NETWORK FIREWALL Options TimeSchedule IP Manage 	Serial N	lo Name Cycle Begin	Cycle End	Day of The Week	Single Begin Time	Single End Time	Operation
Port Manage Port Map IP Map Strategy SFI VPN SERVICE TRAFFIC DIU WDDFW					Page: 1/0	PreoPage New	tPage Add
VIIZARD LOG PASSWD REBOOT LOGOUT							
						internet	- t 100x

USER: Ac	dd the timetable	(🛞 e)
<pre>System Info FORT FORT FIREWALL Cytions FIREWALL Cytions FIRESchedule FOrt Manage FOrt Manage FOrt Map FIP Map Strategy SPI VPN SERVICE TRAFFIC DTU MODEM VIZZARD LOG PASSWD REBOOT LOGOUT</pre>	Name Beginning time 00 wh 00 wh Weak 00 wh 00 wh Weak 100 The Wed The Fri Sat Sum Beginning time 1969 01 01 01 00 00 00 00 w Weit 100 w 00 w 00 w Note: 1. When there is empty, that means no restriction. 2. Cycle and single operations can be enabled simultaneously. Apply	

Add the time table

Enable cycle operation	enable cycle operation
Beginning time	start time to get online
Ending time	end time to get offline
Week	week setting for schedule

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Enable single operation	online once only
Beginning time	time for online
Ending time	time for offline

IP Manage

This page contains the list of all IP manage rules. Click on **Add** button will allow you to add a new rule used "**Strategy**" page.

								N e
outer System Info PORT		Serial No Name	IP Address	S	ubnet Mask	MAC Address	Operation	
PIREWALL Options TimeSchedule IP Manage Port Manage IP Man Strategy SPI								
VPN SERVICE TRAFFIC DTU MODEM VIZZARD LOG	1	Note 1. If the subnet each segment or IP grou 2. IF like 192 like 193 1. IF address can also	Page is 255 255 255 255, the p (Defined by the submo -192, 168, 1, 15, means o be seen domin name, e.	t is one single IF t wash) ne IF segment g www.google.com	1 YES	PrevFage Nex	tPage Add	



	Add IP			(& ex
router	Modify Information			
PORI PORI PORI PORI Options TimeSchedule Port Manage Port Map IP Man Strategy SPI VPN	C Single IP C IP Group C IP Section	Name. IP Address Subnet Mask MAC Address IP Address Subnet Mask Beginning IP Ending IP	255, 255, 255, 255	Click "*" button, you can choose IP-MAC address from the pull- down "arp-table".
IRAFFIC DTU MODEM WIZZARD LOG PASSWD REBOOT	IP or Domain Name	•	×	Fill in either of the below 2 styles, e.g.: A. 192.168.1.23 B. www.google.com You can fill in max 2000 JP addresses, which enabling you batch IP management Apply

Port Manage

This page contains the list of all Port manage rules configured automatically or manually. Select **Manual** tag and click on **Add** button will allow you to add a new rule used "**Strategy**" page.



Default Mendal Sorial No Service Name Post Range Protocol Operation 1 NetReting 1720 TCP/UDP WALL 2 QQ 8000,4000,443 TCP/UDP stions 3 PPTP 47,1723 TCP/UDP * Manage 5 NTP 161-162 TCP/UDP * Manage 5 NTP 123 TCP/UDP * Manage 6 UDP 0-65535 TCP/UDP * Map 7 QUAKE 26000,27910,27960 TCP/UDP * Map 8 AOL 5190-5194 TCP/UDP 10 IKE 500 TCP/UDP 10 IKE 500 TCP/UDP 10 IKE 500 TCP/UDP	Default Marcul System Info System Info PONT Serial No Serial No Serial No NETWORK 1 PIREWALL 2 Options 3 TimeSchedule 4 FINEWALK 2 Options 3 PIREWALL 3 PORT Manage 5 Port Manage 6 Dott Manage 6 Port Map 7 QUAKE 26000, 2700, 27910, 27960 TCP/UDP 5190-5194 TCP/UDP 9 INFO_ADDRESS 17 YFN 10 SERVICE Page: 1/5 IMAFFIC Image	Default Herrical System Info Service Name Port Range Protocol Operation NETWORK 1 NetWeeting 1720 TCP/UDP PIERWALL 2 QQ 8000,4000,443 TCP/UDP Options 3 PPTP 47,1723 TCP/UDP TimeSchedule 4 SMMP 161-162 TCP/UDP Port Manage 5 NTP 123 TCP/UDP Port Manage 6 UDP 0-65535 TCP/UDP Port Manage 6 UDP 0-65535 TCP/UDP TIP Map 7 QUAKE 2600,27000,27910,27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SFI 9 INF_0_ADDRESS 17 TCP/UDP VPN 10 IKE 500 TCP/UDP	Default Mercul System Info Default Mercul System Info Serial No Service Name Port Range Protocol Operation NETWORK 1 NetWeeting 1720 ICP/UDP Options 3 PPTP 47, 1723 ICP/UDP Options 3 PPTP 47, 1723 ICP/UDP I P Manage 5 NTP 123 ICP/UDP Port Manage 5 NTP 123 ICP/UDP Port Map 7 QUAKE 26000, 27000, 27910, 27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SFI 9 INF0_ADDRESS 17 ICP/UDP VFN 10 IKE 500 TCP/UDP			
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NORK 1 NetReting 1720 TCP/UDP WALL 2 QQ 8000,4000,443 TCP/UDP otions 3 PPTP 47,1723 TCP/UDP insSchedule 4 SNMP 161-162 TCP/UDP insSchedule 4 SNMP 161-162 TCP/UDP insSchedule 4 SNMP 161-162 TCP/UDP int Manage 5 NTP 123 TCP/UDP int Manage 6 UDP 0-65535 TCP/UDP int Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP int Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP 'I 9 INFO_ADDRESS 17 TCP/UDP 'I 9 INFO_ADDRESS 17 TCP/UDP 'ICE Page: 1/5 I YES NextPage	NETWORK 1 MetHeeting 1720 TCP/UDP PIREWALL 2 QQ 8000,4000,443 TCP/UDP Options 3 PPTP 47,1723 TCP/UDP InseSchedule 4 SNMP 161-162 TCP/UDP IP Manage 5 NTP 123 TCP/UDP Port Manage 6 UDP 0-65535 TCP/UDP IP Map 7 QUAKE 2600,27000,27910,27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SPI 9 INFO_ADDRESS 17 TCP/UDP SERVICE Page: 1/5 I TES ProvPage DTU NextPage 10 INE 500 TCP/UDP	NETWORK 1 NetHeeting 1720 TCP/UDP PIREWALL 2 QQ 8000,443 TCP/UDP Options 3 PPTP 47,1723 TCP/UDP Image 4 SNMP 161-162 TCP/UDP IP Manage 5 NTP 123 TCP/UDP Port Manage 6 UDP 0-65535 TCP/UDP IP Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SPI 9 INFO_ADDRESS 17 TCP/UDP VPN 10 IKE 500 TCP/UDP	NETWORK I NetReting 1720 TCP/UDP PIREWALL 2 QQ 8000,4000,443 TCP/UDP Options 3 PPTP 47,1723 TCP/UDP Inschedule 4 SMMP 161-162 TCP/UDP IP Manage 5 NTP 123 TCP/UDP Port Manage 6 UUP 0-66535 TCP/UDP Port Manage 7 QUAKE 2600,2700,27910,27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SFIT 9 INF0_ADDRESS 17 TCP/UDP VFN 10 IKE 500 TCP/UDP	System Info Default Marrial	uter Default Marrial	System Info Default Marchil
I NetWeeting 1720 TCP/UDP NRL 2 QQ 8000,4000,443 TCP/UDP ptions 3 PPTP 47,1723 TCP/UDP imeSchedule 4 SNOP 161-162 TCP/UDP imeSchedule 4 SNOP 161-162 TCP/UDP int Manage 5 NTP 123 TCP/UDP int Manage 6 UDP 0-65535 TCP/UDP int Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP int Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP int Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP int Map 9 INFO_ADDRESS 17 TCP/UDP int 9 INFO_ADDRESS 17 TCP/UDP i0 IKE 500 TCP/UDP i0 IKE 500 TCP/UDP i0 IKE 500 TCP/UDP int YES PrevP	PORT Definition Definition Definition Definition NETWORK 1 NetWeeting 1720 TCP/UDP FIREWALL 2 QQ 8000,4000,443 TCP/UDP Options 3 PPTP 47,1723 TCP/UDP TimeSchedule 4 SNMP 161-162 TCP/UDP IP Manage 5 NTP 123 TCP/UDP Port Mange 6 UDP 0-65535 TCP/UDP Port Map 7 QUAKE 26000,27000,27910,27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SPI 9 INFO_ADDRESS 17 TCP/UDP SERVICE Page: 1/5 I YES NextPage	Port Interface PortManage CCP/UDP TimeSchedule 1 NetWeeting 1720 TCP/UDP Options 3 PPTP 47,1723 TCP/UDP TimeSchedule 4 SNMP 161-162 TCP/UDP If Manage 5 NTP 123 TCP/UDP Port Manage 6 UDP 0-65535 TCP/UDP Port Map 7 QUAKE 6000, 27000, 27910, 27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SPI 9 INFO_ADDRESS 17 TCP/UDP VPN 10 IKE 500 TCP/UDP	PORT Definition Definition Definition Definition NETWORK 1 NetWeeting 1720 TCP/UDP PIREWALL 2 QQ 8000,4000,443 TCP/UDP Options 3 PFTP 47,1723 TCP/UDP TimeSchedule 4 SNMP 161-162 TCP/UDP Port Manage 5 NTP 123 TCP/UDP Port Manage 6 UDP 0-65535 TCP/UDP Port Manage 7 QUAKE 26000,27000,27910,27960 TCP/UDP Strategy 8 AOL 5190-5194 TCP/UDP SPI 9 INFO_ADDRESS 17 TCP/UDP SERVICE Page: 1/5 1 TES FreevPage NextPage		uter	

	Service					(S e)
router						
System Info		Default	Manual	Dest Dessus	Bertowell Or western	
• PORT		Senal No	Service name	Pon Kange	Protocol Operation	
METWORK						
- FIREWALL						
TimeSchedule						
IP Manage						
D Port Manage						
Port Map						
Strategy						
🖾 SPI						
🔹 vpn						
SERVICE			Page: 0/0		PrevPage NextPage Add	
TRAFFIC						
DTU	8					
VIZZARD						
LOG						
PASSWD						
REBOOT						



router	Add service	Service Setting			_	<u>⊗</u> exit
NETWORK FIREWALL Options TimeSchedule IP Manage Port Manage Port Manage If Map IF Map Strategy SFI VEN SERVICE TRAFFIC DTH		Service name* Port number	Start NO. 1 NO. 3 NO. 5 NO. 7 NO. 9	Pro End 65535 NO. 2 NO. 4 NO. 6 NO. 8 NO. 8 NO. 10	<pre>tocol TCP/UDP (Port range) (If "Port mumber" is selected, the port NO.1 nust be filled in.) Apply</pre>	
NODEM VIZZARD LOG PASSWD REBOOT LOGOUT						

Port Map

This page contains the list of all Port mapping rules. Click on **Add** button will allow you to add a new rule used "**Strategy**" page.



- Userer	ort mapping					(Seex
router System Info	Seria	I No Port No Server	Mapping port	Mapping Server	Protocol Operation	
PORT						
NETWORK						
Direwall						
TimeSchedule IP Manage Port Manage Port Map IP Map Strategy						
SPI SPI						
VPN		Page: 1/0		1 YES PreyFi	ige NextPage Add	
TRAFFIC DTU MODEM	1	Note: If the subnet mask otherwise one IP group (D	is 255,258,255,255,258, offined by the subnet	that is one single IP mark).	address,	
WIZZARD						
PASSWD						
REBOOT						

Fouter System Info PORI NETWORK FIREWALL Options TimeSchedule IP Manage Port Manage Port Manage Strategy SPI YPN	Edit Port Mapping Mapping Port Range* Range of Mapping Port* Server Mapping server* Protocol	antr Curvel
TRAFFIC DTU DOEM TIZARD LOG REBOOT LOGOUT		

IP Map

This page contains the list of all IP mapping rules. Click on Add button will allow you to



	IP Address Mapping	(sexit
Pouter System Info PORT NETWORK Options TimeSchedule	Serial No IP Address Mapping Server Operation	
 IP Manage Port Manage Port Map IP Map Strategy SPI VPN 	Page: 0/0 1 YES PrevPage NextPage Add	
SERVICE TRAFFIC DTU NODEM VIZZARD LOG PASSWD REBOOT	Note: If the subnet mask is 255.255.255.255, that is one single IP address, otherwise one IP group (Defined by the subnet mask).	

	Add IP Address Mapping	(exit
	IP Address Mapping Server IP Address* Mapping Server*	(en
SERVICE TRAFFIC DTU MODEM VIZZARD LOG PASSUD REBOOT LOGOUT	Apply	



Strategy

This page contains the list of all firewall strategy. Click on **Add** button will allow you to add a new rule.

						S exit
router						2
PORT	Serial No LAN IP	WAN IP	Service	Direction IP Type Policy	Status Operation	
NETWORK						
FIREWALL						
Options						
IP Manage						
Port Manage						
IP Map						
Strategy SPI						
VPN					· · · · · · · · · · · · · · · · · · ·	
SERVICE	Page: 0/0		1	YES Apply PrevPage	NextPage Add	
TRAFFIC						
MODEM						
U WIZZARD						
PASSWD						
DEDAAT						

	Add Packets Rule
System Info PORT NETWORK FIREWALL Ontions	Access Order Enable Serial No. (The smaller Serial No, the higher priority it has.)
Deprint TimeSchedule IP Manage Port Manage IP Map IP Map Strategy SPI	Log Identity (Give a specific name for the log, the maximum length is 20 characters) Content Filter CBuck QQ CBlock MSN C WEB LOG Explain: 1. "Domain name" can be complete or partial. Can fill in several ones, separate them with blank. 2. "Monstandard HITP request" can filter some application not http compatible through 80 port. 3. "File suffix", you can fill in format like *.bst *.exe *.doc, separate them with blank.
VFN SERVICE TRAFFIC DTU MODEM VIZZARD LOG PASSWD REBOOT LOGOUT	Direction LAN->WAN LAN IP Select LAN - External network IP Select Click arrow button, button, imetable Select Landwidth Control kbit/s Explain: 1. Bandwidth control: set the maxi bandwidth for per IP, packets exceed will be prohibited. 2. Timetable: set the time range during which the rule is applied. 3. It will be no restriction for non-selected items.
	When comply with above conditions (rules) Pass Pass allow packet's pass through, no log occures Deny: deny packet's pass through, no log occures Deny&log: allow packet's pass through, log occures Deny&log: deny packet's pass through, log occures WANI-WAN4: pass through one specified WAN port
	Items with *are mandatory Apply



SPI

This page contains the list of all network sessions.

	Session Table									(S e)
System Info		Find: displ	(197)			Query	(Note: Fill	in one port/IP	address to	
NETWORK	Ser	ial No								
FIREWALL	3 No.	1	tcp	TIME_WAIT	192.168.0.11	7	1165	192.168.0.254	10000	
Options		2	tcp	TIME_WAIT	192.168.0.11	7	1169	192.168.0.254	10000	
Port Manage Port Map IP Map Strategy SPI VPN SERVICE TRAFFIC										
MODEM WIZZARD LOG PASSWD	I	YE	s	PrevPage	NextPage	Page	e: 1/1			
REBOOT LOGOUT		The	top	10 most ses	sions					



VPN

IPSec

This page allows you to configure IPSec network. Select the type of setting and click on **Add VPN Setting** to all a new rule.

	VPN Setting					8
i ter ystem Info NT	Connection	Username	Local LAN User	Remote WAN IP	Remote LAN User	
IREWALL PN IPSEC status PPTP PPTP User ERVICE ERVICE ERVICE IZZARD OG ASSWD	Add VPN Set	ting @ Client	cal IP t	f client software		
iBoot xGout	Display (Connection Statu				



	Add Client's VPN Setting		(S exit
System Info	User Name (LAN ID)	(none)	To succeed VPN connection,
NETWORK	Local LAN	Select INPUT	Username(10) and parsword must be same as the Server assigned. We suggest use Username(ID) like :
FIREWALL VPN		IP Address	client 1. vpn11. com
IPSEC status	Barris TB as Davis	Mask	Note:
 PPTP PPTP User 	Name Remote LAW		In VPN, routing is determined by subnets's IP addresses. So the
SERVICE TRAFFIC	Kenote LAN	Select INPUT	subnets's IP addresses can't be conflict with each other, or
DTU NODEM		Subnet	with that of the server.
VIZZARD LOG	Password	Rasz	
PASSWD REBOOT	Advance		
D 200001	-	Save/Apply	

			(8)
System Info PORT NETWORX FIREWALL VPN IPSBC IPSBC status PPTP SERVICE TRAFFIC DIU WIZLARD LOG PASSWD REBOOT LOGOUT	User Name (Remote ID) Local LAN Remote IP or Domain Name Remote LAN Password Advance	Select INPUT IP Address Subnet Mask Dynamic IP Select INPUT IP Address Subnet Mask	To succeed VPN connection, Remote Username(ID) and password must be same as the Client assigned. We ruggest use Remote Username(ID) like: client1.vpn11.com For dynamic IP, no need to fill in IP address. Note: In VPN, routing is determined by submets's IP addresses. So the submets's IP addresses can't be conflict with each other, or with that of the server.

IPSec Status

This page contains the list and status of IPSec network.



	Tunnel Status					🔕 exit
 Fouter System Info PORT NETWORK FIREWALL VPN IPSEC IPSEC IPSEC PPTP PPTP PPTP PETP PTUser SERVICE TRAFFIC DTU MODEM VIIZARD LOG PASSWD REBOOT LOGOUT 	Remote LAM IP	Local LAN	Remote LAN Subnet	Status	Communication Packets Amount	
					internet	Fa - 100%

PPTP

This page allows you to configure PPTP IP pool.

router	PPTP Setting			exit
 System Info PORT NETWORK FIREWALL 		Setting		
VPN IPSEC IPSEC status PPTP PPTP User		Begining IP		
SERVICE TRAFFIC DTU NODEM WIZZARD LOG DAG		Ending IP	Apply	
REBOOT				



PPTP User

This page contains the list of PPTP user. Click on **Add** button will allow you to add a new PPTP user.

	PPTP user				🛞 exit
router System Info • PORT • NETWORK		Serial No User name	Password	Operation	
VPN VPN IPSEC IPSEC status PPTP PPTP User SERVICE					
TRAFFIC DTU NODEM VIZZARD LOG PASSWD REBOOT LOGOUT		Page: 1/0	PrevPage	NextPage Add	



router				(Section 1)
System Into PORT PORT PORT PETWORK FIREWALL VPN PFSEC status PFTP PFTP User SERVICE TRAFFIC DTU WODEM WIZZARD LOG PASSWD REBOOT LOGOUT	PPIP User Setting User name Parsword Confirm parsword Static IP Note: "Static IP" is PPIP allocation range	optional item, means wi	• • 11 be assigned the static IP if	<u>Apply</u> you select it, ensure it in the



Service

Time

Configure the system time of this device manually or ask this device to retrieve system time from NTP server.

	Time Setting		🛞 exit
Pouter System Info PORT NETWORK FIREWALL VPN SERVICE Time CLI		System Time Week Day Month Year Clock Thu I V Jan V 2001 V 10 V:56 V:15 V save	
Current Upgrade Center Backup/Restore Reset TRAFFIC DTU MDDEM WIZLARD LOG PASSWD		Enable Hostname/Address time.windows.com Time Zone GMT+8 💌 Apply	
EBOOT LOGOUT			

CLI

This page is an interface to execute some simple CLI commands.



USERa	Command Line		(s) exi
OUTET System Info PORT NETWORK FIREWALL VPN SERVICE Time Cert Upgrade Certer Backup/Restore Reset TRAFFIC DTU WDDEM WIZLARD LOG PASSWD LOGOUT	Input command lines Execute commands		Clear commands

Upgrade

Use this page to do firmware upgrade.

	System upgrade	(exit
System Info PORI PORI NETWORK FIREWALL VN SERVICE Inme Center Backup/Restore Reset TRAFFIC DTU MODEM VIZIARD LOG PASSWD REBOOT LOGOUT	ROUTER: File name: RUE Upgrade	



Upgrade the router as follow step:

- 1. Menu \rightarrow Port \rightarrow WAN, change all WAN setting to CLOSE, save.
- 2. Menu \rightarrow Service \rightarrow Upgrade, choice the upgrade file, press Upgrade buttom.
- 3. Upgrade success information will display after 3 minutes, reboot the router.
- 4. Menu \rightarrow Service \rightarrow Reset, reset the router.
- 5. Configure the router for work again.

Note: the upgrade will use 3 minutes, without any information before success. During the upgrade, do not touch the Ethernet cable, power, and do not refresh the web also.

Backup/Restore

This page is used to save the settings of this device as file or restore the setting from the file saved previously.

USER: System Info PORI NETWORK FIREWALL VPN SERVICE Time CLI Upgrade Center Backup/Restore Reset TRAFFIC DTU MODEM VIZZARD LOG PASSWD REBOOT LOGOUT	Backup/Restore Config	up. vpn		
完成			internet	€ <u>6</u> • * 100% • /



Reset

Reset all settings of this device to factory default by clicking this option.

Message	from webpage	×
?	Warning: If you restore to factory defaulty, you will lose the configuration you set before, sure?	are you
	研定 取消	



Traffic

IP Flow Control

This page is used configure the packet flow control of LAN devices.

					(3)
Surter Info	Serial No Beginning IP	Ending IP	Upstream(kbit/s)	Downstream(kbit/s)	Enable
PORT	1		0	0	
NETWORK	2	-	0	0	
FIREWALL					
VPN	3		0	0	
SERVICE					
TRAFFIC	multi wan backup mode:				
IP Flow Control DTU			(Note: queue manag	ement will lower the sys	ten's
MODEM	Enable queue management	—	performance, if yo bandwidth for WAN	ou need minimum upstream , ports, set them in ahead,	/ downstream , then reboot
WIZZARD LOG			the router to effe	ct queue management sett	ing.)
PASSWD	Flow control type: Max	imum bandwidth -	(When queue manage	ment is not enabled, ONL'	ľ can set
REBOOT			Addings Califyrddi	Merey	Annly
5 200001					ovy 1
	Current IP Flow S	totur			



DTU

This device can be used as a DTU. The settings of serial port and server/client socket information are configured here.

□ start			
COM SETUP			
baudrate	9600 💌		
E parity	none 💌		
lC databits	8 •		
RD flush char	r	1	Characters to enforce send to net(hex value)
D max char	[Max Characters befer send to net (<1024)
I timeout flush	[ĥ	Max Timeout to flush (microsecond)
close ppp			string for close wan1 ppp dail
start ppp	[- Jj	string for star wan1 ppp dail
NET SETUP			
Convert mode	ransparent	C ipcomm	
IP mode	@ tcp	Cudp	
local port	[3	local bind port
server addr	[
server port	[
ping frequency	-		per second
ping distination	[



Modem

This page is used to update PRL of modem.

	Modem Info	(a) exit
System Info		
NETWORK FIREWALL		
VPN SERVICE	MODULE	
TRAFFIC DTU MODEM WIZZARD	UPDATE Preferred Roaming List (PRL): update	
LOG PASSWD REBOOT		
200001		



Wizard

The RJ45 (Ethernet) port of this device can be used as WAN and this wizard is used to guide you how to configure the RJ45 step by step.

Following pictures act as example to demonstrate the steps to set RJ45 as PPPoE WAN.

1. The wizard starting page.

router System Info PORT NETWORK FIREWALL VPN SERVICE TRAFFIC IP Flow Control DUU WODEM VIIIARD LOG PASSWD REBOOT LOGOUT	Feter 1. This Firard guides you for the basic settings 2. The settings will not take effect until the router reboots. return next	
---	---	--



2. Setting the router working mode.

Wizard Se	tting——Mode option	<u>(⊗</u> exit)
System Info PORI NETWORK FIREWALL VEN SERVICE TRAFFIC ID Flow Control DIU MODEM VIIZARD LOG PASSWD REBOOT LOGOUT	Bode option © Gateway (NAT) Explain: Gateway (NAT) mode, can auto translate Source and Destination IF addresses.	

3. Setting the router WAN mode.

USEA: Wizard Setti	ng——WAN mode	(⊗ exit
System Info PORI NETWORK FIREWALL VPN SERVICE TRAFFIC DTU MODEM VIIIARD LOGOUT LOGOUT	Please choose TAN mode • PFFOE(ADSL) • Static IP • Dynamic IF (DMCP) Explain: At present, we can OMLY set WAMI port with this wirard. Please go to "Port Setting-WAMI Setting" for more details. return next	



EX-9632R-H/EX-963	3R-H
	Manual

USER Wizard Settin	gADSL Input ABSL's HeacePassword Urername Password Explain: Flease go to "Port Setting" MAN Setting" for more details. return	(exit
--------------------	--	--------

4. Setting the PPP user name and password.

5. Setting the limit of WAN bandwidth.

USEA: • router • System Info • PORT • RETWORK • FIREWALL • VPN • SERVICE • TRAFFIC • TRAFFIC • TRAFFIC • UTU • MODEM • VITIARD • LOG • PASSWD • REDOOT • LOGOUT	Wizard Setting	⊗ exit
	S Internet	



6. Setting the LAN parameters.

Fould: Forter System Info PORT NETWORK FIREWALL YPN SERVICE TRAFFIC IP Flow Control DTU MODEM YIZIARO LOG PASSWD REBOOT	LAN Inferention Hostname LAN IP Address [192.168.0. Subnet Mask [255.255.25	254 5.0	next	S EXIT

7. Setting the DHCP parameters.

0120 Wizard Setting	DHCP Setting	(a) exi
System Info PORT NETWORK FIREWALL VPN SERVICE TRAFFIC DTU DTU MODEM VIITAND LOG DASSWD REBOOT LOGOUT	DMCP Server Setting Fnable DHCP Server Beginning IP Address I92.168.0.1 Ending IP Address Subnet Mask 255.255.255.0 DNS Server Explain: DMCP server assigns IP addresses to host PCs in the LAM. Here defines one IP pool (segment), ensure it be same as LAM's segment, and no conflict with current working IP addresses in the LAM.	



8. The wizard finished.

Wizard Setti	ng — — Complete	🛞 exit
 router System Info PORT NETWORK FIREWALL VPN SERVICE TRAFFIC IP Flow Control DTU MODEM VIIZAND LOG PASSWD NEBOOT LOGOUT 	Setting Completed 1. Click "Complete" to reboot the router to make the setting effect. return finish	



LOG

System log.

	Syslog
outer	
System Info	
PORT	Display lines 20 ONLY display with Refresh
NETWORK	
FIREWALL	Jan 1 00:00:14 kernel: i2c-dev: i2c-0 writing 9 bytes.
VPN	Jan 1 00:00:14 kernel: i2c_adapter i2c-0: master_xfer[0] W, addr=0x50, len=9
SERVICE	Jan 1 00:00:14 kernel: process 'snapd' is using obsolete setsockopt SO_BSDCOMPAT
JERVICE .	Jan 1 00:00:14 kernel: 12c-dev: 12c-0 writing 1 bytes.
DTU	Jan 1 00:00:14 kernel: 12c-adapter 12c-0: master_xfer[0] W, addr=0x50, len=1
MODEM	Jan 1 00:00:14 Kernel: 120-000: 120-0 Fealing 5 Dytes.
WIZZARD	Jan 1 00:00:14 Foot: start spitch uch starage
LOG	Jan 1 00:00:22 root: test csg
PASSWD	Jan 1 00:00:24 root: +CME ERROR: SIM failure'M
REBOOT	Jan 1 00:00:24 pppd[223]: pppd 2.4.3 started by root, uid 0
LOGOUT	Jan 1 00:00:25 chat[227]: abort on (BUSY)
	Jan 1 00:00:25 chat[227]: abort on (NO CARRIER)
	Jan 1 00:00:25 chat[227]: send (AT+CSQ W)
	Jan 1 00:00:25 chat[22/]: expect (0A)
	Jan 1 00:00:20 Chat [227] + d'WE ERRIN: STM failura W
	Jan 1 00:00:26 kernel: br0: topology change detected, propagating
	Jan 1 00:00:26 kernel; br0; port 1(eth0) entering forwarding state
	Ten 1 00.00.34 memory Discontrol Login on other from 100 169 0 117



PASSWD

Login password can be changed via this page.

	Modify Password				🛞 exit
 Touter System Info PORT NETWORK FIREWALL VFN SERVICE TRAFFIC DTU MODEM WIIIARD LOG PASSWD REBOOT LOGOUT 		New Password Confirm Passwo	rd [Save	
成				Internet	Fa . 1,100% .



Reboot

Reboot confirm dialog after press the reboot from menu.



Logout

Logout confirm dialog after press the logout from menu.





Appendix A

DDNS

"Dynamic DNS or DDNS is a method of updating, in real time, a Domain Name System (DNS) to point to a changing IP address on the Internet. This is used to provide a persistent domain name for a resource that may change location on the network." -- wiki

- 3 components needed to make the DDNS mechanism functional.
- (A) A DDNS server
- (B) A device requires DDNS service
- (C) A device which wants to connect (B)

The reason why DDNS is needed is because (B) may change its IP address randomly or periodically, and/or actively or passively. When this happens, (C) is not possible to connect to (B) via IP address because it is not aware of the changes except that (B) tells (C) exceptively and which can't always possible. To solve this problem, (A) stands between (B) and (C). Firstly, (B) have to register itself to (A) with expected domain name (e.g. mr521.gotdns.com). Every time (B) changes its IP address, it has to tell (A) about new IP. Later on, if (C) wants to connect to (B), it has to use the domain name, except the IP address. The domain name resolving request (i.e. transfer domain name to IP address) from (C) will first sent to (A) and it will return with current (B)'s IP. Then, (C) can connect to (B) with no problem.

So, the 1^{st} step to setup DDNS is to find public or private DDNS server. Here, we use 14-days trial version service provided by <u>DynDNS</u> as an example.

 Connect to DynDNS home page, <u>http://dyn.com/welcome-to-the-new-dyn-com/</u>, and select "Free Trial of DynDNS Pro" on left bottom.



For over 13 years, Dyn has powered industry leading uptime for the biggest web brands, small businesses and personal users around the world. Take a look at Dyn's various DNS products and evaluate what's right for you.

Remote Access DynDNS Pro	Standard Dyn Standard DNS	Enterprise Lite DynECT Managed DNS Lite	Enterprise DynECT Managed DNS					
	What is it for?							
Dynamic DNS service used to connect remotely to your DVR, webcam, computer or many other devices.	Complete DNS hosting for a single domain (ex mycompany.com) in one easy-to-use interface.	Enterprise-level DNS performance and reliability at an ideal price for growing businesses.	Enterprise-level DNS with core features bolstered by advanced features like Global Traffic Management, Load Balancing and Active Failover.					
	Who u	ises it?						
Home users looking to remotely access their DVR, webcam, computer, etc.	Personal and small business web sites that are low traffic and who want reliable DNS services for their domain.	Companies and startups that need maximum reliability, speed and scalability.	The biggest and fastest growing brands that cannot afford a minute of downtime.					
	View Full Tee	chnical Specs						
\$20.00 per year LEARN MORE	\$29.95 per year LEARN MORE	as low as \$30.00 LEARN MORE per month	as low as \$200.00 LEARN MORE per month					
Additional Products								
Free Trial of DynDNS Pro To the basis of great	Free Trial of Seconda Standard Redunda	ary DNS th name r domains Registration Registration	¢					

2. Click on "START THE TRIAL"



3. Type in desired name and select postfix domain name. And input the IP address of your device.



se note: if you cancel the DynDNS P				fer benenes.	
	ro Trial service, the	ese features	will be disabled.		•
Hostname:	mr521	•	gotdns.com	~	
Wildcard:	create "* (for examyourdoma	host.dyndr nple to use ain.com)	is-yourdomain.co same settings fo	om" alias r www.host.d	yndns-
Service Type:	 Host with IP address 				
	WebHop Redirect (URL forwarding service) Offline Hostname				
	0				
IP Address:	122.146.121	242			
	Your current	location's IP	address is 122.	146.121.242	
	IPv6 Address	(optional):			
	2				2
	TTL value is 6	60 seconds.	Edit TTL		

4. You will find your new DNS name on the top of this page. Input the information relevant to this domain name, including username, password, email address, numbers in Security Image. Then check "I accept ..." checkbox and click "Create Account".



Billing	·		
Active Services	Take the first step toward 100% reliable primary DNS management with Dyn 3	Standard DNS. With 10 yea	rs of industry
Renew Services	leading uptime, why risk downtime with anyone else? Pricing starts at just \$29).95 per year and you can <u>get</u>	t started today!
Auto Renew Settings	DynDNS Pro Trial (14 days)	remove	\$0.00
Order History	Dynamic DNS Hosts		
Billing Profile	mr521.gotdps.com	remove	\$0.00
Sync Expirations		Order Total	¢0.00
	Discount: Use Coupon	order rotal.	-\$ U. UU
	Contribute to DynCares, Dyn's foundation work.	\$5.00 V Add	
	Create account or log in to continue checkout:	r	
	Username	Already Registered?	
	Password	llsername	
		oscinanc	
	Confirm password		
	Confirm password	Password	
	Confirm password	Password	g in
	Confirm password	Password	g in
	Confirm password Email Confirm Email Security Image Enter the numbers from the above image:	Password Lo	g in2
	Confirm password	Password Lo	g in2
	Confirm password	Password Lo	g in2

- 5. Reply the confirmation mail sent to the e-mail address you inputted in Step 4 by following the instruction in it.
- 6. Go to the DDNS page of this device and type in the information relating to your account in DynDNS.

DDNS Server	dyndns.com 👻	
Host Name		
User name		
Password		
Enable	• Yes No)