

User Manual

Cellular ROUTER

TekFast
Model: CR-1010

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Product Overview

Product Description

CR-1010 Series Router is a range of very compact cellular Router. These competitive products are dedicated to the M2M (Communication between machines).

CR-1010 are a designed to provide remote connectivity across cellular network and will be your could choice to build your own WLAN comply with 802.11n/802.11g/802.11b/802.113/802.113u standard has 300Mbps.

Features and Specification

Main Features

- Quad-Band UMTS/HSPA+ GSM/GPRS/EDGE
- WLAN to comply with 802.11n/802.11g/802.11b/802.113/802.113u
- 4 CH 10/100Mbit/s Ethernet ports
- DHCP server, DHCP serve static IP address
- Support RTC/CTS protocol
- Support TCP/IP,DHCP, ICMP protocol
- Web management and configuration

General features

Dual-Band UMTS/HSPA+

Quad-Band GSM/GPRS/EDGE

Signal strength and Status indicators (LED)

Control via AT commands and GUI Interface

SIM card (1.8V/3.0V interface)

SMA External antenna connector

Industrial grade components

Automatic connection, Keep alive, Watchdog

Transparent (TCP/UDP)

WIFI SSID broadcast, Wireless 2.4GHz 300Mbps

Wireless encryption: WPA, WPA2, WPA-PSK, WPA2-PSK

Wireless MAC address filtering: support whitelist

VLAN settings, Transmit power setting

WDS function, Number of wireless clients limit, QoS: WMM

Kick out weak signal device, disable weak signal device access

System Management, WEB management

System log, Restore factory settings

Backup configuration, Import configuration

Software upgrades

GPS build-in

Data logger

Supply voltage measure, log and alarm (Optional)

Temperature checking (Optional)

RF Specifications

Dual- Band UMTS/HSPA+ 800(850)/2100MHz

Quad- Band GSM/GPRS/EDGE 850/900/1800/1900MHz

GPRS multi slot class 12

EDGE multi slot class 12

WCDMA cellularPP release 5

Output power

UMTS 850/2100 : 0.25W

GSM 850/GSM900 : 2W

DCS 1800/PCS1900 : 1W

Specifications for GPS

A-GPS : MS-Based, MS-Assisted

Stand-alone GPS/QUALCOMM XTRA GPS mode

GLONASS

Ethernet

4 Ethernet Ports, 1 WAN Port (RJ45) Full Duplex

1 USB Port (AIRCARD Support)

Communication Interface

RS-232, RS485 Selectable

RS-232 Serial interface (RJ45)

Baud rate : 1200-115200bps

Parity bits : 8N1, 8O1, 8E1

Specifications for Data transfer

HSPA+: Max. 14.4 Mbps (DL), Max. 5.76 Mbps (UL)

WCDMA: Max. 384 Kbps (DL), Max. 384 Kbps (UL)

EDGE: Max. 236.8 Kbps (DL), Max. 118 Kbps (UL)

GPRS: Max. 85.6 Kbps (DL), Max. 42.8 Kbps (UL)

CSD: GSM data rate 14.4 Kbps

WCDMA data rate 57.6 Kbps

WCDMA 64Kbps CSD for Video call

Other features

Data/SMS/MMS/Voice and Fax

UDP, TCP/IP, FTP/FTPS/HTTP/HTTPS

SMTP/SNMPv3/PPP/POP3/DNS/FOTA/eCall

Power Supply

DC 10-30V 1A / AC 110-240V

Environmental

Operating temperature -25C°to+70C°

Storage temperature -40C°to+85C°

Operating relative humidity 5 to 95% RH

Dimensions 55 W x D 100 x H 130 mm.

Mounting

DIN rail mounting

Technical Specifications

Networks	cellular/GPRS/EDGE	cellular (850/900/1900/2100MHz) or GPRS/EDGE (900/1800MHz) class 10
	Authentication Protocol	CHAP/PAP/MS-CHAP/MS-CHAPV2/etc.
	APN Support	Access Point Name supported
Platform	CPU	MT7620A
	FLASH	16 Mbytes
	SDRAM	128 Mbytes
	Operating System	Embedded Linux System
External Memory	Interface	MICRO SD
SIM	Interface	Voltages Supported: 1.8V / 3.0V
Antenna	Interface	SMA female connector, Impedance 50 Ohm
LAN Interface	Auto-Adaption	10/100Mbit/s Ethernet auto-adaptive, MDI/MDI-X auto crossover
	Isolation Protection	1.5KV network isolation transformer protection
RS232/RS485	Data Rate	1,200bits~115,200bits
	Communication Parameters	Parity: None, Even, Odd, Space, Mark; Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2
	Protection	15KV ESD Protection
Online	Configuration	Serial, Telnet and Web configuration
	Upgrade	Remote upgrade and web upgrade, utilizing redundant backup mechanism for trouble-free upgrades
Network Functions	Routing	Static routing
	Multi-Protocol Support	ICMP, IP, TCP, UDP, DHCP, PPP, ARP, Telnet, DNS, SSH, VRRP, HTTP, HTTPS,SNMPv3 etc.
	Connection Supervision	Utilizing connection supervision mechanism, ensuring the device is always on-line
	NAT and PAT Port Mapping	Network Address Translation (NAT) and Port Address Translation (PAT), Denying illegitimate host access
	MAC Address Bundling	Allowing extranet user to access specific intranet port
	DDNS	Supports Dynamic DNS (Domain Name System)
Network Security	VPN (optional)	Supports standard IPSec (both support main mode and aggressive mode) Supports PPTP/L2TP/GRE/SSL VPN
	Firewall Strategy	State Packet Inspection(SPI), filtering multicast, filtering PING packet, preventing DoS attack, setting different firewall strategies
Indicators	LED Status Indicators	LED Indicators for Signal strength LED Status Indicators for Power, Status, Network,WAN port, LAN Ports
Button Reset	Resetting	Factory Default / Reboot
Power Supply	Power Input	10 - 30 Vdc, polarity dependent, reverse polarity protection over-current protection, removable industrial terminal block

	Power Consumption	250mA @ 12V(max)
	Burst/Surge Protection	4KV/2KV
Environment	Temperature	Operating Temperature: -25 to +70°C Storage: -40 to +85°C
	Humidity	5% - 95%, non-condensing
	Protection Level	IP30
Safety	Electric Strength	DC500V imposed on communication lines to ground and on power lines to ground, resistance >500MQ

Hardware Description

Panel Layout

- Front Panel

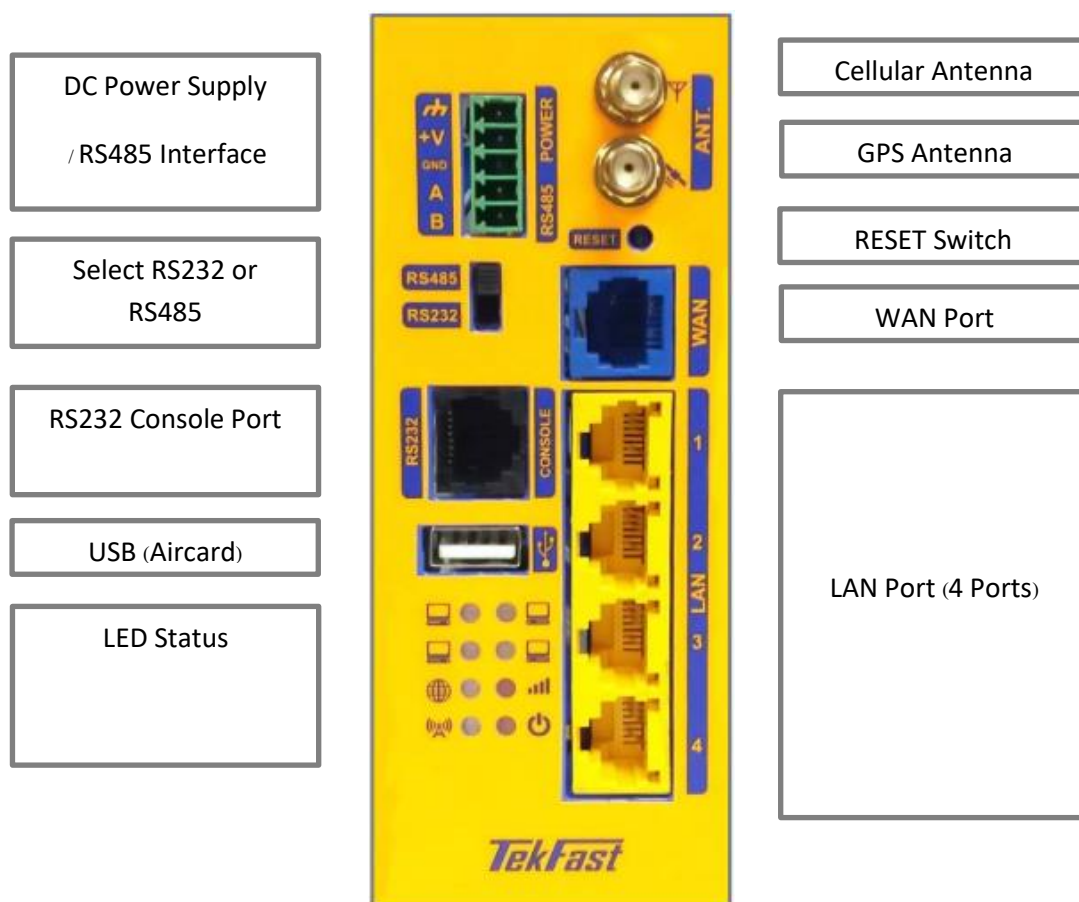
Front panel provide the power connector, console port , Ethernet ports , GSM /GPS antenna and LED Status.



- Back Panel

Back panel provide the DIN rail mounting for installation.





Reset (Default factory)

If you want to reset to the factory default setting, please refer the below steps.

- 1) To plug the power adapter.
- 2) When the router works normally, press the reset button for 8 seconds.
- 3) All the router's LEDs will off and then on again, wait until it work normally.
- 4) When above 3 steps done, the router will reset to the factory default setting.

Warning Before steps finishing, don't cut the power off, or it will break your router.

System Requirements.

- Network card and Ethernet cable
- TCP/IP net software (Windows 95 or higher version has pre-install)
- IE 5.0 or higher version

Install Condition

When you install the router, please refer the below

- Put the device horizontally
- Keep away from any heat device
- Do not put it in some place which is too dirty or too humidity

TCP/IP Configuration

Before using the device, you need to configure the network correctly, this manual is based on the Windows 2000/XP/7, the IP of the device is 192.168.1.1, subnet mask is 255.255.255.0

Connect your PC to the LAN port and then you can configure the IP of your PC in 2 ways.

- **Set the IP**
Set your PC's IP as 192.168.1.xxx (xxx could be any number in 2-254) subnet mask to be 255.255.255.0, default gateway 192.168.1.1, DNS server 192.168.1.1
- **Auto set the IP by the DHCP server**
Set the TCP/IP to automatically get IP address, after setting, you could use the ping command to check if the device has connected to the PC. For an example, in Windows 2000 run the cmd.exe, and then enter ping 192.168.1.1 if the screen shows as the below, means OK, The device connected to the PC.

Configuration Guide

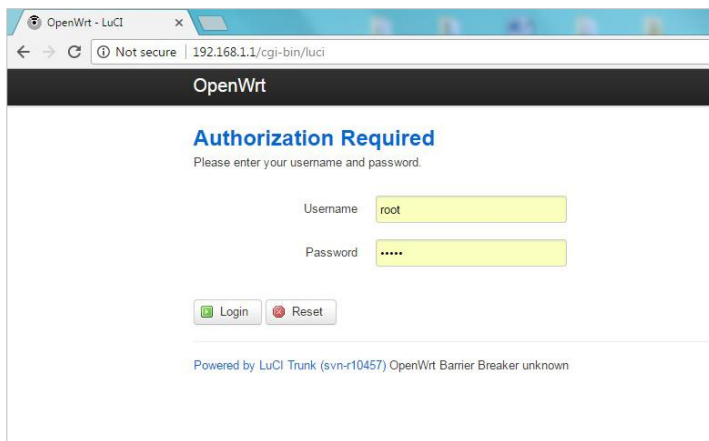
Start and Login

The router provide the UI based on the IE , this solution could work in any Windows, Macintosh or UNIX system, Run the browser, enable the VPN and then input the 192.168.1.1 in browser. After doing that you should enter it as the administer, which means you should enter the

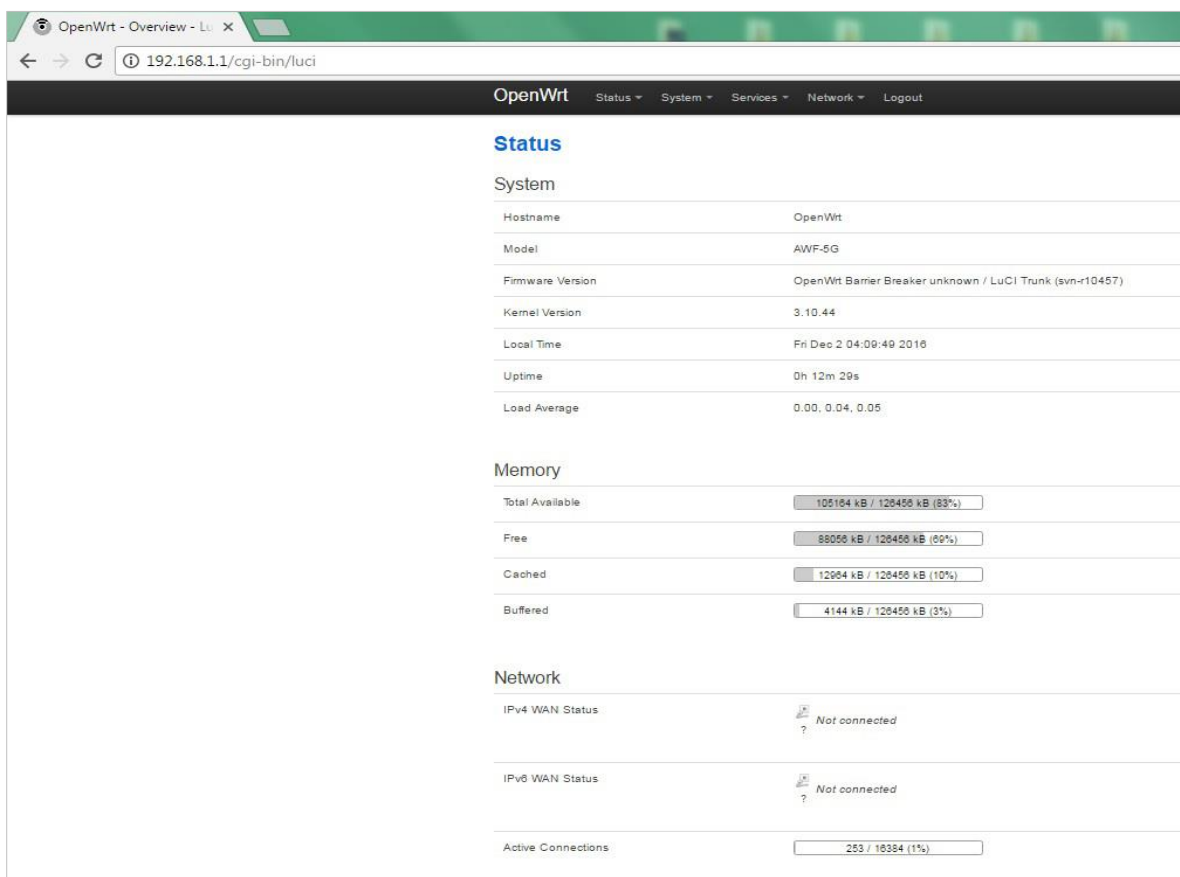
Username : root

Password : admin

And then click the “log in”



The system of the Router is OpenWrt



Status

Overview – You could check the running information, included system information, Memory, network, DHCP leases, wireless and associate stations.

Status

System > Hostname, Model, Firmware Version, Kernel Version, Local Time, Uptime, Load Average

Memory > Total Available, Free, Cached, Buffered

Network > The connection status of the WAN port.

DHCP Leases > Show the IP address, MAC Address, and the Lease time remaining.

Wireless > It is about the wireless status, will included SSID, Mode, Work Channel, Bitrate, BSSID and the Encryption of the transmission.

Firewall

The firewall tag, you could check the firewall status of the device.

OpenWrt - Firewall - Luci X

192.168.1.1/cgi-bin/luci/stok=cee373352dd30a6d56979b24aa27fc3f/admin/status/iptables/4

OpenWrt Status System Services Network Logout

Firewall Status

IPv4 Firewall IPv6 Firewall

Actions

- Reset Counters
- Restart Firewall

Table: Filter

Chain *INPUT* (Policy: *ACCEPT*, Packets: 0, Traffic: 0.00 B)

Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	17151	1.20 MB	delegate_input	all	--	*	*	0.0.0.0/0	0.0.0.0/0	-

Chain *FORWARD* (Policy: *DROP*, Packets: 0, Traffic: 0.00 B)

Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	0	0.00 B	delegate_forward	all	--	*	*	0.0.0.0/0	0.0.0.0/0	-

Chain *OUTPUT* (Policy: *ACCEPT*, Packets: 0, Traffic: 0.00 B)

Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	17267	1.68 MB	delegate_output	all	--	*	*	0.0.0.0/0	0.0.0.0/0	-

Routes

The following rules are currently active on this system.

OpenWrt - Routes - LuCI
192.168.1.1/cgi-bin/luci/stok=cee373352dd30a6d56979b24aa27fc3f/admin/status/routes
OpenWrt
Status
System
Services
Network
Logout

Routes

The following rules are currently active on this system.

ARP

IPv4-Address	MAC-Address	Interface
192.168.1.106	dc:0e:a1:3e:78:b6	br-lan

Active IPv4-Routes

Network	Target	IPv4-Gateway	Metric
lan	192.168.1.0/24	0.0.0.0	0

Active IPv6-Routes

Network	Target	IPv6-Gateway	Metric
lan	FDAB:585E:FDC9:0:2455:C1D8:B89B:E7AA	0:0:0:0:0:0:0:0	00000000
lan	FDAB:585E:FDC9:0:0:0:0:0/60	0:0:0:0:0:0:0:0	00000100
loopback	FDAB:585E:FDC9:0:0:0:0:0/48	0:0:0:0:0:0:0:0	7FFFFFFF
loopback	0:0:0:0:0:0:0:0	0:0:0:0:0:0:0:0	FFFFFFFF
loopback	0:0:0:0:0:0:0:1	0:0:0:0:0:0:0:0	00000000
loopback	FDAB:585E:FDC9:0:0:0:0:0	0:0:0:0:0:0:0:0	00000000

System Log

The System Log, you could check the running status and the operate history.

OpenWrt - System Log - X
192.168.1.1/cgi-bin/luci/stok=cee373352dd30a6d56979b24aa27fc3f/admin/status/syslog
OpenWrt
Status
System
Services
Network
Logout

System Log

```

Fri Dec 2 03:57:40 2016 kern.info kernel: [ 11.810000] eth0: port 3 link up (100Mbps/Full duplex)
Fri Dec 2 03:57:40 2016 kern.notice kernel: [ 11.870000] jfs2: notice: (336) jfs2_build_xattr_subsystem: complete building xattr subsystem, 4 of xdatum (0 unc
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.640000] NET: Registered protocol family 10
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.650000] NET: Registered protocol family 8
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.660000] NET: Registered protocol family 20
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.690000] RPC: Registered named UNIX socket transport module.
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.690000] RPC: Registered udp transport module.
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.700000] RPC: Registered tcp transport module.
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.700000] RPC: Registered tcp NFSv4.1 backchannel transport module.
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.720000] NTFS driver 2.1.30 [Flags: R/O MODULE].
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.740000] Initializing XFRM netlink socket
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.750000] NET: Registered protocol family 15
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.760000] tun: Universal TUN/TAP device driver, 1.6
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.760000] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.790000] l2tp_core: L2TP core driver, V2.0
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.790000] l2tp_netlink: L2TP netlink interface
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.800000] l2tp_eth: L2TP ethernet pseudowire support (L2TPv3)
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.810000] l2tp_ip: L2TP IP encapsulation support (L2TPv3)
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.820000] gre: GRE over IPv4 demultiplexor driver
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.840000] ip_gre: GRE over IPv4 tunneling driver
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.890000] PPP generic driver version 2.4.2
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.930000] nf_conntrack version 0.5.0 (1975 buckets, 7900 max)
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.950000] ip6_tables: (C) 2000-2006 Netfilter Core Team
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 14.990000] u32 classifier
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 15.000000] input device check on
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 15.000000] Actions configured
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 15.010000] Mirror/redirect action on
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.690000] rt2860v2_ap: module license 'unspecified' taints kernel.
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.700000] Disabling lock debugging due to kernel taint
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.760000]
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.760000]
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.760000] === pAd = c06bb000, size = 821200 ===
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.760000]
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.760000] <- RTMPAllocTxRxRingMemory, Status=0
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.770000] <- RTMPAllocAdapterBlock, Status=0
Fri Dec 2 03:57:40 2016 kern.warn kernel: [ 15.770000] AP Driver version-2.7.2.0
Fri Dec 2 03:57:40 2016 kern.info kernel: [ 15.790000] usbcore: registered new interface driver usbserial

```


Kernel Log

The Kernel Log, you could check some information about the device's system.

```

[ 0.000000] Linux version 3.10.44 (zbt123@zbt-server) (gcc version 4.8.3 (OpenWrt/Linaro GCC 4.8-2014.04 unknown) ) #254
[ 0.000000] Board has DDR2
[ 0.000000] Analog PMU set to hw control
[ 0.000000] Digital PMU set to hw control
[ 0.000000] SoC Type: Ralink MT7620A ver:2 eco:6
[ 0.000000] bootconsole [early0] enabled
[ 0.000000] CPU revision is: 00019650 (MIPS 24KEc)
[ 0.000000] MIPS: machine is AWF-5G
[ 0.000000] Determined physical RAM map:
[ 0.000000] memory: 08000000 @ 00000000 (usable)
[ 0.000000] Initrd not found or empty - disabling initrd
[ 0.000000] Zone ranges:
[ 0.000000] Normal [mem 0x00000000-0x07ffff]
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem 0x00000000-0x07ffff]
[ 0.000000] On node 0 totalpages: 32768
[ 0.000000] free_area_init_node: node 0, pgdat 80310a60, node_mem_map 81005b00
[ 0.000000] Normal zone: 256 pages used for memmap
[ 0.000000] Normal zone: 0 pages reserved
[ 0.000000] Normal zone: 32768 pages, LIFO batch:7
[ 0.000000] Primary instruction cache 64kB, VIPT, 4-way, linesize 32 bytes.
[ 0.000000] Primary data cache 32kB, 4-way, PIPT, no aliases, linesize 32 bytes
[ 0.000000] pcpu-alloc: s0 r0 d32768 u32768 alloc=1*32768
[ 0.000000] pcpu-alloc: [0] 0
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 32512
[ 0.000000] Kernel command line: console=ttyS0,115200 rootfstype=squashfs,jffs2
[ 0.000000] PID hash table entries: 512 (order: -1, 2048 bytes)
[ 0.000000] Dentry cache hash table entries: 16384 (order: 4, 65536 bytes)

```

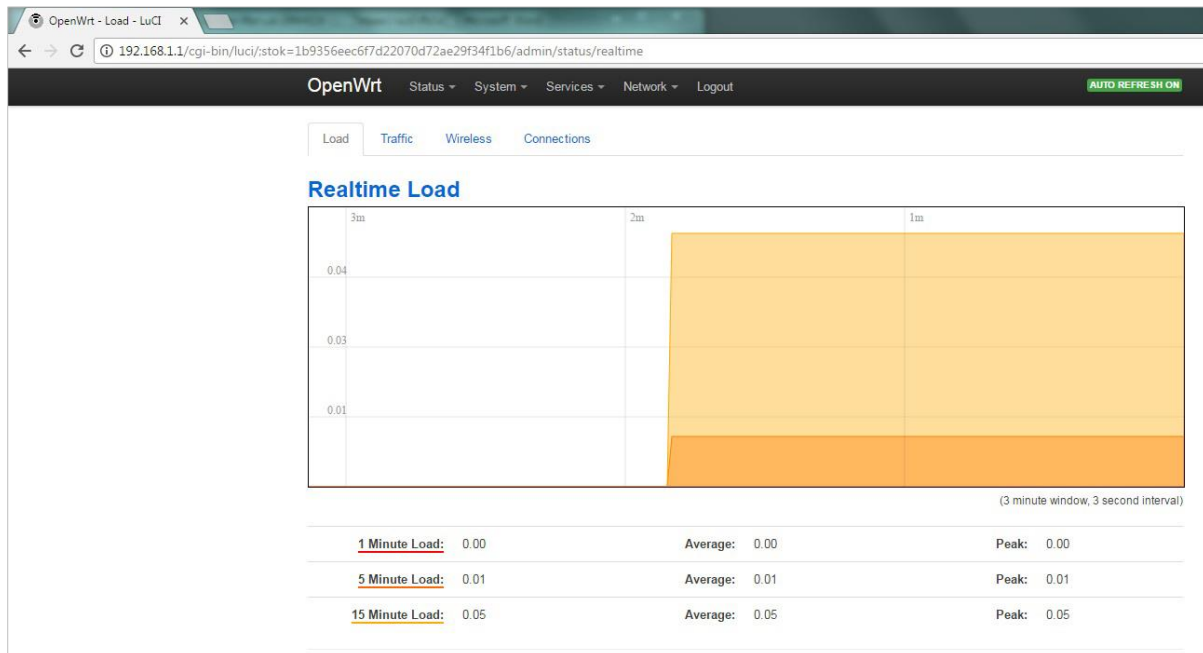
Processes

The Progresses, you could check an overview over currently running system processes and their status. Such as CPU usage, Memory usage. You could hang up, terminate or even kill the program, depends on your requirements.

PID	Owner	Command	CPU usage (%)	Memory usage (%)	Hang Up	Terminate	Kill
1	root	/sbin/procd	0%	1%	Hang Up	Terminate	Kill
2	root	[kthreadd]	0%	0%	Hang Up	Terminate	Kill
3	root	[ksoftirqd/0]	0%	0%	Hang Up	Terminate	Kill
4	root	[kworker/0:0]	0%	0%	Hang Up	Terminate	Kill
5	root	[kworker/0:0H]	0%	0%	Hang Up	Terminate	Kill
6	root	[kworker/u2:0]	0%	0%	Hang Up	Terminate	Kill
7	root	[khelper]	0%	0%	Hang Up	Terminate	Kill
78	root	[writeback]	0%	0%	Hang Up	Terminate	Kill
80	root	[bioset]	0%	0%	Hang Up	Terminate	Kill
82	root	[kblockd]	0%	0%	Hang Up	Terminate	Kill

Realtime Load

The Realtime Load, you could check the load, traffic, wireless and connection of the device.



System

The System tag, could check and edit some basic information of the device, including Local time, Hostname, Timezone and Time Synchronization (NTP)

System

Here you can configure the basic aspects of your device like its hostname or the timezone.

System Properties

General settings | **Logging** | Language and Style

Local Time: Fri Dec 2 04:52:28 2016 ☒ Sync with browser

Hostname:

Timezone:

Time Synchronization

Enable NTP client: ☒

Provide NTP server: ☐

NTP server candidates:

- 0. openwrt.pool.ntp.org
- 1. openwrt.pool.ntp.org
- 2. openwrt.pool.ntp.org
- 3. openwrt.pool.ntp.org

Save & Apply | Save | Reset

Administration

You can edit the administrator password for accessing the device.

The screenshot shows the OpenWrt Administration web interface in a browser. The address bar shows the URL: 192.168.1.1/cgi-bin/luci/stok=1b9356eec6f7d22070d72ae29f34f1b6/admin/system/admin. The page has a dark header with the OpenWrt logo and navigation links: Status, System, Services, Network, and Logout. The main content area is divided into two sections. The first section is titled "Router Password" and contains a form with two input fields: "Password" and "Confirmation". The second section is titled "SSH Access" and contains a form for configuring Dropbear. The "Dropbear Instance" section includes a dropdown menu for "Interface" (set to "4G_WAN"), a "Port" field (set to "22"), and several checkboxes for "Password authentication", "Allow root logins with password", and "Gateway ports". The "SSH-Keys" section has a text area for pasting public SSH keys.

Software

The software page, you could download and install the package, do not operate it without a professional engineer.

Startup

The Startup page, you can enable or disable installed init scripts here. Changes will applied after a device reboot, do not operate it without a professional engineer.

Scheduled Tasks

The Scheduled Tasks is the system crontab in which scheduled tasks can defined , do not operate it without a professional engineer.

Mount Points

Do some edition about the system, do not operate it without a professional engineer.

LED Configuration

LED configuration it is for customizes the behavior of the device LEDs if possible.

Backup / Flash Firmware

You could upgrade the firmware or backup it in this page, as below.

The screenshot shows the OpenWrt web interface for the 'Flash operations' section. The page has a dark header with 'OpenWrt' and navigation links: Status, System, Services, Network, and Logout. The main content area is titled 'Flash operations' and has two tabs: 'Actions' and 'Configuration'. Under the 'Actions' tab, there is a section for 'Backup / Restore'. It includes instructions: 'Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images)'. There are two buttons: 'Generate archive' and 'Perform reset'. Below this, there is a section for 'Restore backup' with instructions: 'To restore configuration files, you can upload a previously generated backup archive here.' It includes a 'Choose File' button, 'No file chosen' text, and an 'Upload archive...' button. The next section is 'Flash new firmware image' with instructions: 'Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image)'. It includes a 'Keep settings' checkbox (checked), an 'Image:' label, a 'Choose File' button, 'No file chosen' text, and a 'Flash image...' button. At the bottom, it says 'Powered by LuCI Trunk (svn-r10457) OpenWrt Barrier Breaker unknown'.

Reboot

You could reboot the operating system of your device.

The screenshot shows the OpenWrt web interface for the 'System' section. The page has a dark header with 'OpenWrt' and navigation links: Status, System, Services, Network, and Logout. The main content area is titled 'System' and has a section for 'Reboot'. It includes instructions: 'Reboots the operating system of your device'. There is a 'Perform reboot' button. At the bottom, it says 'Powered by LuCI Trunk (svn-r10457) OpenWrt Barrier Breaker unknown'.

Services

Dynamic DNS

Dynamic DNS allows that your router can be reached with a fixed hostname while having a dynamically changing IP address

Dynamic DNS

Dynamic DNS allows that your router can be reached with a fixed hostname while having a dynamically changing IP address.

MYDDNS

Enable ☐

Service:

Hostname:

Username:

Password:

Source of IP address:

URL:

Check for changed IP every:

Check-time unit:

Force update every:

Force-time unit:

Network Shares

You could edit the network sharing.

Network Shares

Samba

General settings

Hostname:

Description:

Workgroup:

Share home-directories:

☐ Allow system users to reach their home directories via network shares

Shared Directories

Name	Path	Allowed users	Read-only	Allow guests	Create mask	Directory mask
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="Mask for new files"/>	<input type="text" value="Mask for new directories"/>

Interfaces

The Interface tag, you could the wired port's status and edit it.

OpenWrt - Interfaces - LuCI

192.168.1.1/cgi-bin/luci/stok=c1fdd35597ed557d90c020be6754a45f/admin/network/network

OpenWrt Status System Services Network Logout

WAN WAN6 4G_WAN LAN

Interfaces

Interface Overview

Network	Status	Actions
LAN br-lan	Uptime: 0h 17m 33s MAC-Address: 78:A3:51:2A:F8:92 RX: 278.43 KB (2392 Pkts.) TX: 577.30 KB (2473 Pkts.) IPv4: 192.168.1.1/24 IPv6: FDAB:585E:FDC9:0:0:0:0:1/60	Connect Stop Edit Delete
4G_WAN 3g-4g_wan	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete
WAN eth0.2	Uptime: 0h 0m 0s MAC-Address: 78:A3:51:2A:F8:93 RX: 0.00 B (0 Pkts.) TX: 120.45 KB (355 Pkts.)	Connect Stop Edit Delete
WAN6 @wan	MAC-Address: 00:00:00:00:00:00 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete

Add new interface...

Global network options

IPv6 ULA-Prefix: fdab:585e:fdc9::/48

Save & Apply Save Reset

Wifi

Wifi is the wireless network interface, you could check the wireless port's status and edit it.

OpenWrt - Wifi - LuCI

192.168.1.1/cgi-bin/luci/stok=c1fdd35597ed557d90c020be6754a45f/admin/network/wireless

OpenWrt Status System Services Network Logout

ra0: Master "OpenWrt_7620a_2.4G_890"

Wireless Overview

Ralink/MTK RT2860v2 802.11bgn (ra0)
Channel: 1 (2.4 GHz) | Bitrate: 300 Mbit/s

SSID: OpenWrt_7620a_2.4G_890 | Mode: Master
0% BSSID: 78:A3:51:2A:F8:90 | Encryption: -

Disable Scan Add Edit Remove

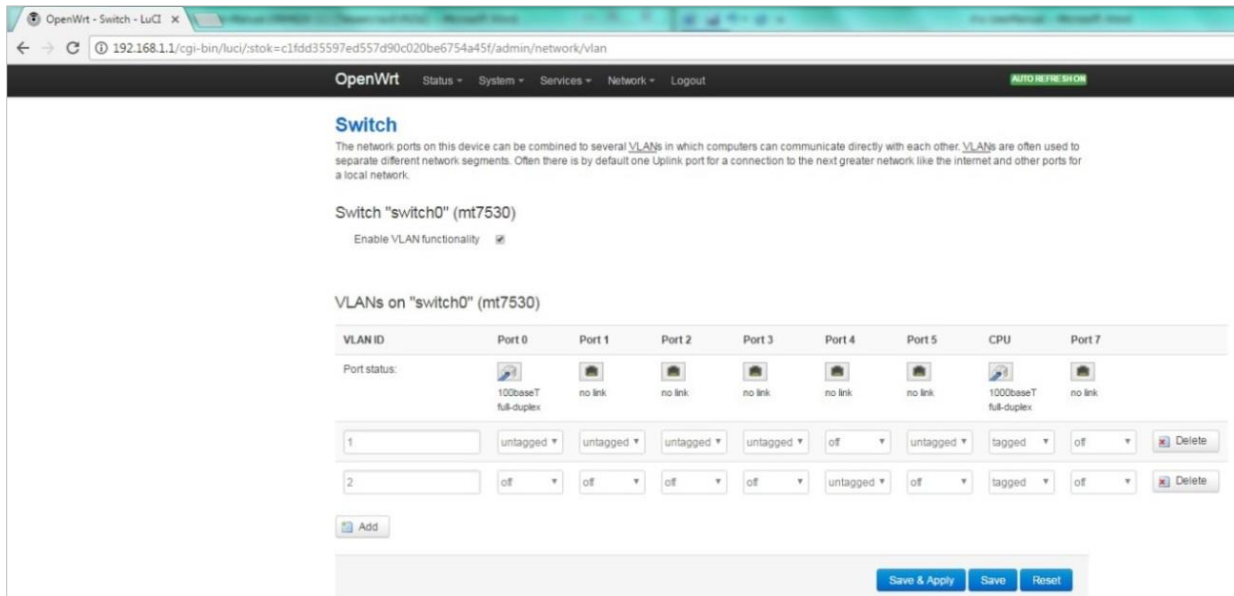
Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

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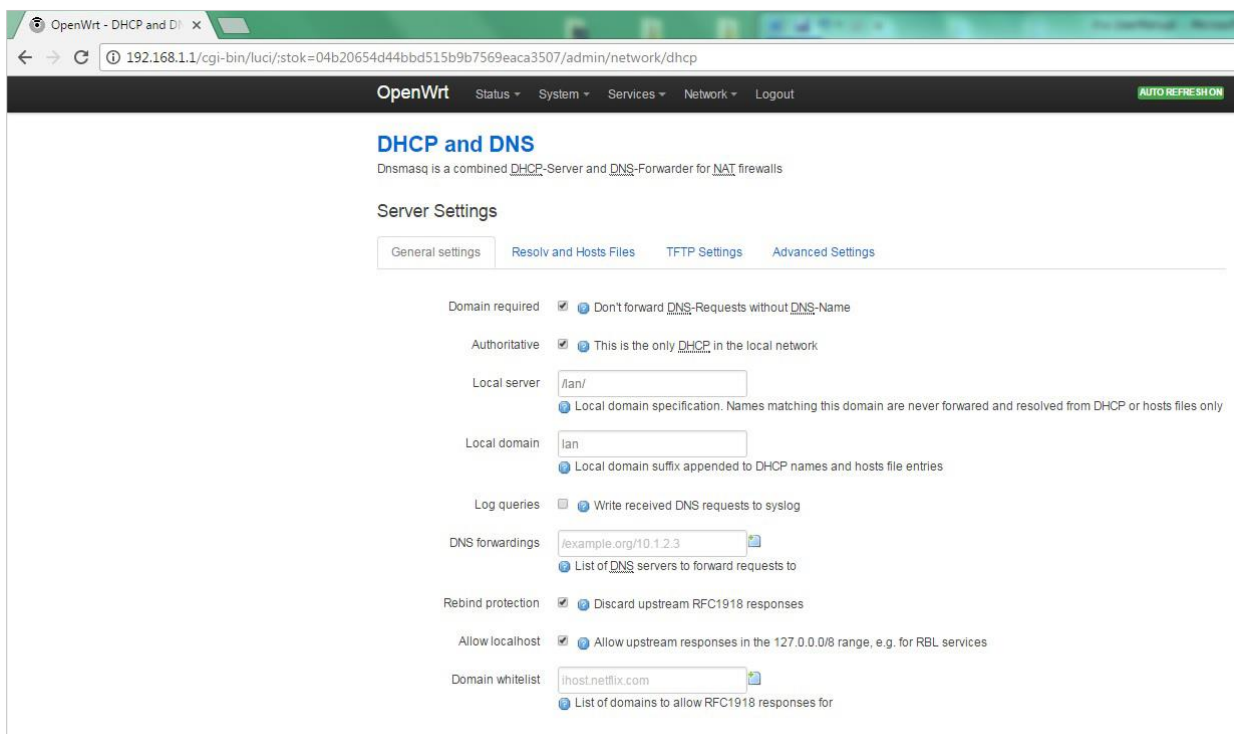
Switch

The network ports on device can be combined to several VLANs in which computers can communicate directly with each other.



DHCP and DNS

The DHCP and DNS mode , you could edit or setting network mode , do not operate it without a professional engineer.



Hostname

You could setting and edit the Hostnames. , do not operate it without a professional engineer.

OpenWrt - Hostnames

192.168.1.1/cgi-bin/luci/stok=04b20654d44bbd515b9b7569eaca3507/admin/network/hosts

OpenWrt Status System Services Network Logout

Hostnames

Host entries

Hostname	IP address
This section contains no values yet	

Add

Save & Apply Save Reset

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Static Routes

You could setting and edit the IP Static Routes. , do not operate it without a professional engineer.

OpenWrt - Static Routes

192.168.1.1/cgi-bin/luci/stok=a3b813499810f5f538b7c059ff355501/admin/network/routes

OpenWrt Status System Services Network Logout UNAPPLIED CHANGES

Routes

Routes specify over which interface and gateway a certain host or network can be reached.

Static IPv4 Routes

Interface	Target	IPv4-Netmask	IPv4-Gateway	Metric	MTU
	Host-IP or Network	if target is a network			
This section contains no values yet					

Add

Static IPv6 Routes

Interface	Target	IPv6-Gateway	Metric	MTU
	IPv6-Address or Network (CIDR)			
This section contains no values yet				

Add

Save & Apply Save Reset

Firewall

The firewall creates zones over your network interface to control network traffic flow.

OpenWrt - General settings

192.168.1.1/cgi-bin/luci/stok=a3b813499810f5f538b7c059ff355501/admin/network/firewall

OpenWrt Status System Services Network Logout

General settings Port Forwards Traffic Rules Custom Rules

Firewall - Zone Settings

The firewall creates zones over your network interfaces to control network traffic flow.

General settings

Enable SYN-flood protection ☒

Drop invalid packets ☐

Input: accept

Output: accept

Forward: reject

Zones

Zone → Forwardings	Input	Output	Forward	Masquerading	MSS clamping	
lan: lan: → wan	accept	accept	accept	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete
wan: wan: wan6: 4G_WAN: → REJECT	reject	accept	reject	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Edit Delete

Add

Save & Apply Save Reset

Diagnostics

The Network Utilities , Ping, Traceroute and Nslookup for test system.

OpenWrt - Diagnostics

192.168.1.1/cgi-bin/luci/stok=a3b813499810f5f538b7c059ff355501/admin/network/diagnostics

OpenWrt Status System Services Network Logout

Diagnostics

Network Utilities

openwrt.org openwrt.org openwrt.org

IPv4 ☐ Ping Traceroute Nslookup

Install iputils-traceroute6 for IPv6 traceroute

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QoS

With QoS you can prioritize network traffic selected by addresses, port or services.

Quality of Service
With QoS you can prioritize network traffic selected by addresses, ports or services.

Interfaces

WAN

Enable ☐

Classification group: default

Calculate overhead ☐

Half-duplex ☐

Download speed (kb/s): 1024

Upload speed (kb/s): 128

Classification Rules

Target	Source host	Destination host	Service	Protocol	Ports	Number of bytes	Comment	Sort
priority	all	all	all	all	22.83		ssh, dns	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Delete"/>
normal	all	all	all	TCP	20.21.25.80.110.443.800.880		ftp, smtp, https, imap	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Delete"/>
express	all	all	all	all	5190		AOL, iChat, ICQ	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Delete"/>

Logout

The Log out tag, you will log out the website.