

# QMTCEOC6004W Configuration Guide

## Configuration preparation

- TCEOC6004W
- Browser support: IE8 and above or chrome

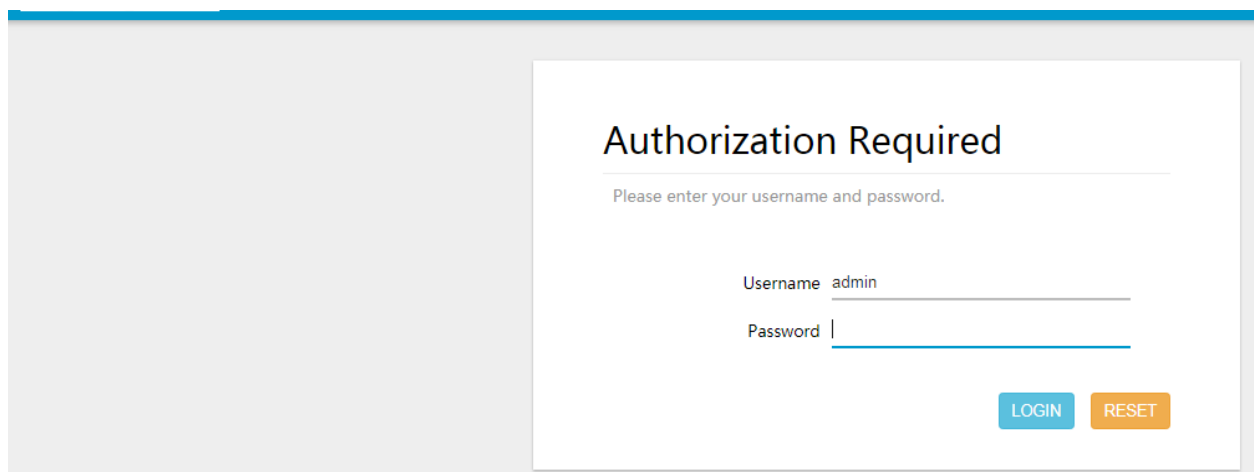
## 二. Service configuration

### 2.1 Login web

Default IP: 192.168.1.1

Username: admin

Password: admin



**Authorization Required**

Please enter your username and password.

Username

Password

## 2.2 Upgrade Device

Use the following steps to upgrade the device

**System->backup/flash Firmware->FLASH IMAGE**

The screenshot shows the 'Flash operations' page in a web interface. On the left sidebar, the 'Backup / Flash Firmware' menu item is highlighted with a red box. The main content area has two tabs: 'Actions' and 'Configuration'. The 'Configuration' tab is active. It contains several sections: 'Download backup' with a 'GENERATE ARCHIVE' button; 'Reset to defaults' with a 'PERFORM RESET' button; 'Restore backup' with an 'UPLOAD ARCHIVE...' button; 'Choose mtblock' with a dropdown menu set to 'u-boot' and a 'SAVE MTDBLOCK' button; and 'Upload a sysupgrade-compatible image here to replace the running firmware.' with a 'FLASH IMAGE...' button highlighted by a red box.

## 2.3 Restore Factory Defaults

**System->backup/flash Firmware->PERFORM RESET**

The screenshot shows the 'Flash operations' page in a web interface. On the left sidebar, the 'Backup / Flash Firmware' menu item is highlighted with a red box. The main content area has two tabs: 'Actions' and 'Configuration'. The 'Configuration' tab is active. It contains several sections: 'Download backup' with a 'GENERATE ARCHIVE' button; 'Reset to defaults' with a 'PERFORM RESET' button highlighted by a red box; 'Restore backup' with an 'UPLOAD ARCHIVE...' button; 'Choose mtblock' with a dropdown menu set to 'u-boot' and a 'SAVE MTDBLOCK' button; and 'Upload a sysupgrade-compatible image here to replace the running firmware.' with a 'FLASH IMAGE...' button.

## 2.4 Configuration example

Example:

IPTV+VOD: Vlan-1001 is bridge mode

Internet: Vlan-1002 is routing mode

# 2.4.1 Create VLAN

Create vlan1001 and vlan1002

**Network>Switch>ADD VLAN**

As shown in the figure below, LAN1, LAN2 and LAN3 are internet service ports(VLAN1002), LAN4 is IPTV+VOD(VLAN 1001)

System

Services

Network

Interfaces

Wireless

Switch

DHCP and DNS

Hostnames

Static Routes

Diagnostics

Firewall

Logout

network segments. Often there is by default one Uplink port for a connection to the next greater network like the internet and other ports for a local network.

Enable VLAN functionality ☒

VLANs on "switch0" (rt305x-esw)

VLAN ID	CPU (eth0)	LAN 1	LAN 2	LAN 3	LAN 4	WAN	
Port status:	1000baseT full-duplex	100baseT full-duplex	no link	no link	no link	100baseT full-duplex	
1	tagged	untagged	untagged	untagged	off	off	DELETE
2	tagged	off	off	off	off	untagged	DELETE
1001	tagged	off	off	off	untagged	tagged	DELETE
	off	off	off	off	off	off	DELETE

ADD VLAN

SAVE & APPLYSAVERESET

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Port status:	1000baseT full-duplex	100baseT full-duplex	no link	no link	no link	100baseT full-duplex	
1	tagged	untagged	untagged	untagged	off	off	DELETE
2	tagged	off	off	off	off	untagged	DELETE
1001	tagged	off	off	off	untagged	tagged	DELETE
1002	tagged	off	off	off	off	tagged	DELETE

ADD VLAN

SAVE & APPLYSAVERESET

# 2.4.2 Configure WAN port

**Network>interfaces>wan> EDIT**

Bridge mode configuration (IPTV+VOD)

Status

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Interfaces

<div>LAN</div> <div>br-lan</div>	<div>Protocol: Static address</div> <div>Uptime: 0h 11m 33s</div> <div>MAC: 00:23:1F:48:4B:E9</div> <div>RX: 474.63 KB (3464 Pkts.)</div> <div>TX: 808.25 KB (1963 Pkts.)</div> <div>IPv4: 192.168.1.1/24</div> <div>IPv6: fd74:ba3:f90e::1/60</div>	<div>RESTART</div> <div>STOP</div> <div>EDIT</div> <div>DELETE</div>
<div>WAN</div> <div>eth0.2</div>	<div>Protocol: DHCP client</div> <div>MAC: 00:23:1F:48:4B:E9</div> <div>RX: 0 B (0 Pkts.)</div> <div>TX: 83.59 KB (262 Pkts.)</div>	<div>RESTART</div> <div>STOP</div> <div>EDIT</div> <div>DELETE</div>
<div>WAN6</div> <div>eth0.2</div>	<div>Protocol: DHCPv6 client</div> <div>MAC: 00:23:1F:48:4B:E9</div> <div>RX: 0 B (0 Pkts.)</div> <div>TX: 83.59 KB (262 Pkts.)</div>	<div>RESTART</div> <div>STOP</div> <div>EDIT</div> <div>DELETE</div>

ADD NEW INTERFACE...

SAVE & APPLY

SAVE

RESET

Select protocol ,dhcp ,pppoe or static

Interfaces » WAN

General Settings

Advanced Settings

Physical Settings

Firewall Settings

Status

Device: br-wan

MAC: 00:23:1F:48:4B:E9

RX: 0 B (0 Pkts.)

TX: 1.94 KB (13 Pkts.)

Error: Connection attempt failed

Protocol

DHCP client

Really switch protocol?

Bring up on boot

DHCP client

DHCPv6 client

Static address

PPP

PPPoE

Unmanaged

DISMISS

SAVE

Interfaces » WAN

General Settings

Advanced Settings

Physical Settings

Firewall Settings

Status

Device: br-wan

MAC: 00:23:1F:48:4B:E9

RX: 0 B (0 Pkts.)

TX: 2.58 KB (18 Pkts.)

Error: Connection attempt failed

Protocol

DHCP client

Really switch protocol?

Bring up on boot

SWITCH PROTOCOL

DISMISS

SAVE

Interfaces » WAN

General Settings

Advanced Settings

Physical Settings

Firewall Settings

Status

Device: br-wan

MAC: 00:23:1F:48:4B:E9

RX: 0 B (0 Pkts.)

TX: 2.38 KB (16 Pkts.)

Error: Connection attempt failed

Protocol

DHCP client

Bring up on boot

CA4034W

DISMISS

SAVE

## 2.4.3 Bridge mode configuration

Interfaces » WAN

The screenshot shows the 'Physical Settings' tab for the WAN interface. The 'Bridge interfaces' checkbox is checked and highlighted with a red box, with a red note 'Select, work in bridge mode' next to it. Below it, the 'Enable STP' checkbox is unchecked. The 'Enable IGMP snooping' checkbox is also unchecked. At the bottom, the 'Interface' dropdown is set to 'eth0.2' and the 'eth0.1001' dropdown is highlighted with a red box, with a red note 'Bind the corresponding WAN port' next to it. The 'DISMISS' and 'SAVE' buttons are at the bottom right.

## 2.4.4 Enable IGMP snooping

Interfaces » WAN

The screenshot shows the 'Physical Settings' tab for the WAN interface. The 'Bridge interfaces' checkbox is checked. The 'Enable STP' checkbox is unchecked. The 'Enable IGMP snooping' checkbox is checked and highlighted with a red box. Below it, the 'Interface' dropdown is set to 'eth0.1001' and the 'eth0.2' dropdown is highlighted with a red box. The 'DISMISS' and 'SAVE' buttons are at the bottom right.

After the configuration is completed, click“ save&apply” to apply the configuration

The screenshot shows the 'Interfaces' page with three interfaces listed: LAN (br-lan), WAN (br-wan), and WAN6 (eth0.2). Each interface has a 'RESTART', 'STOP', 'EDIT', and 'DELETE' button. The 'WAN' interface has a red box around the 'EDIT' button. The 'WAN6' interface has a red box around the 'EDIT' button. At the bottom right, the 'SAVE & APPLY' button is highlighted with a red box, along with the 'SAVE' and 'RESET' buttons.

Interfaces Global network options

## Interfaces

<b>LAN</b> br-lan	<b>Protocol:</b> Static address <b>Uptime:</b> 0h 29m 23s <b>MAC:</b> 00:23:1F:48:4B:E9 <b>RX:</b> 1.09 MB (7717 Pkts.) <b>TX:</b> 3.31 MB (5654 Pkts.) <b>IPv4:</b> 192.168.1.1/24 <b>IPv6:</b> fd74:ba3:f90e:1/60	RESTART STOP EDIT DELETE
<b>WAN</b> br-wan	<b>Protocol:</b> DHCP client <b>MAC:</b> 00:23:1F:48:4B:E9 <b>RX:</b> 0 B (0 Pkts.) <b>TX:</b> 10.33 KB (38 Pkts.)	RESTART STOP EDIT DELETE
<b>WAN6</b> eth0.2	<b>Protocol:</b> DHCPv6 client <b>MAC:</b> 00:23:1F:48:4B:E9 <b>RX:</b> 0 B (0 Pkts.) <b>TX:</b> 234.21 KB (1004 Pkts.)	RESTART STOP EDIT DELETE

ADD NEW INTERFACE...

SAVE & APPLY SAVE RESET

## 2.4.5 Route mode configuration (Internet WAN)

### Network>interfaces>wan> EDIT

Status System Services Network **1** Interfaces

Wireless Switch DHCP and DNS Hostnames Static Routes Diagnostics Firewall

Logout

Interfaces Global network options

## Interfaces

<b>LAN</b> br-lan	<b>Protocol:</b> Static address <b>Uptime:</b> 0h 36m 37s <b>MAC:</b> 00:23:1F:48:4B:E9 <b>RX:</b> 1.42 MB (9867 Pkts.) <b>TX:</b> 4.37 MB (7446 Pkts.) <b>IPv4:</b> 192.168.1.1/24 <b>IPv6:</b> fd74:ba3:f90e:1/60	RESTART STOP EDIT DELETE
<b>WAN</b> br-wan	<b>Protocol:</b> DHCP client <b>MAC:</b> 00:23:1F:48:4B:E9 <b>RX:</b> 0 B (0 Pkts.) <b>TX:</b> 4.79 KB (21 Pkts.)	RESTART STOP EDIT DELETE
<b>WAN6</b> eth0.2	<b>Protocol:</b> DHCPv6 client <b>MAC:</b> 00:23:1F:48:4B:E9 <b>RX:</b> 0 B (0 Pkts.) <b>TX:</b> 294.05 KB (1220 Pkts.)	RESTART STOP <b>2</b> EDIT DELETE

ADD NEW INTERFACE...

SAVE & APPLY SAVE RESET

Select protocol ,dhcp ,pppoe or static

Interfaces » WAN6

**3**

General Settings Advanced Settings Physical Settings Firewall Settings

Status **Device:** eth0.2  
**MAC:** 00:23:1F:48:4B:E9  
**RX:** 0 B (0 Pkts.)  
**TX:** 313.45 KB (1281 Pkts.)

Really switch protocol? Bring up on boot

Protocol **4** PPPoE  
 DHCP client  
**PPPoE**  
 Static address  
 PPP  
 DHCPv6 client  
 Unmanaged

DISMISS SAVE

## Interfaces » WAN6

General Settings | Advanced Settings | Physical Settings | Firewall Settings

Status Device: eth0.2  
MAC: 00:23:1F:48:4B:EA  
RX: 0 B (0 Pkts.)  
TX: 322.69 KB (1308 Pkts.)

Protocol PPPoE

Really switch protocol? **SWITCH PROTOCOL** 5

Bring up on boot ☒

DISMISS **SAVE**

## Interfaces » WAN

General Settings | Advanced Settings | Physical Settings | Firewall Settings

Status Device: eth0.2  
MAC: 00:23:1F:48:4B:EA  
RX: 0 B (0 Pkts.)  
TX: 117.94 KB (364 Pkts.)

Protocol PPPoE

Bring up on boot ☒ 6

PAP/CHAP username labtest05

PAP/CHAP password \*\*\*\*\*

Access Concentrator auto  
Leave empty to autodetect

Service Name auto  
Leave empty to autodetect

DISMISS **SAVE** 7

## Interfaces » WAN6

General Settings | Advanced Settings | **Physical Settings** | Firewall Settings

Bridge interfaces ☐ 8 No choice, Working in routing mode

creates a bridge over specified interface(s)

Interface eth0.1002 9

- Bridge: "br-wan" (wan)
- Ethernet Switch: "eth0"
- Bridge: "br-lan" (lan)
- Switch VLAN: "eth0.1002"**
- Wireless Network: Master "GDWIFI\_484BE7" (lan)
- Alias Interface: "@lan"
- Alias Interface: "@wan"
- Alias Interface: "@wan6"

DISMISS **SAVE** 10

SAVE & APPLY **SAVE**

After the configuration is completed, click "save&apply" to apply the configuration

Status

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Interfaces

LAN

br-lan

Protocol: Static address

Uptime: 0h 51m 0s

MAC: 00:23:1F:48:4B:E9

RX: 1.84 MB (12814 Pkts.)

TX: 6.27 MB (9853 Pkts.)

IPv4: 192.168.1.1/24

IPv6: fd74:ba3:f90e:1/60

RESTART STOP EDIT DELETE

WAN

br-wan

Protocol: DHCP client

MAC: 00:23:1F:48:4B:E9

RX: 0 B (0 Pkts.)

TX: 110.42 KB (392 Pkts.)

RESTART STOP EDIT DELETE

WAN6

eth0.1002

Protocol: PPPoE

Error: Connection attempt failed

Interface has 2 pending changes

RESTART STOP EDIT DELETE

ADD NEW INTERFACE...

11

SAVE & APPLY SAVE RESET

Status

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Switch

DHCP and DNS

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Logout

Interfaces

Global network options

Interfaces

LAN

br-lan

Protocol: Static address

Uptime: 0h 49m 45s

MAC: 00:23:1F:48:4B:E9

RX: 1.76 MB (12298 Pkts.)

TX: 6.00 MB (9434 Pkts.)

IPv4: 192.168.1.1/24

IPv6: fd74:ba3:f90e:1/60

RESTART STOP EDIT DELETE

WAN

br-wan

Protocol: DHCP client

MAC: 00:23:1F:48:4B:E9

RX: 0 B (0 Pkts.)

TX: 97.83 KB (320 Pkts.)

RESTART STOP EDIT DELETE

WAN6

eth0.1002

Protocol: PPPoE

MAC: 00:23:1F:48:4B:E9

RX: 0 B (0 Pkts.)

TX: 2.34 KB (16 Pkts.)

RESTART STOP EDIT DELETE

ADD NEW INTERFACE...

SAVE & APPLY SAVE RESET

## 2.5 WIFI configuration

NetWork>Wireless>EDIT

Modify WiFi SSID and password; Click "EDIT"

Status

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Interfaces

Wireless

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DHCP and DNS

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Wireless Overview

radio0

MediaTek MT76x8 802.11bgn

Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s

SSID: GDWiFi\_484BE7 | Mode: Master

BSSID: 00:23:1F:48:4B:E7 | Encryption: None

RESTART SCAN ADD

DISABLE EDIT REMOVE

Associated Stations

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
No information available				

SAVE & APPLY SAVE RESET

Powered by LuCI (svn-r97589) / OpenWrt SNAPSHOT unknown

Administration user

Modify the SSID , SSID: GDWiFi\_484BE7i



Status **Mode: Master | SSID: GDWiFi\_484BE7**  
**BSSID: 00:23:1F:48:4B:E7**  
**Encryption: None**  
**Channel: 11 (2.462 GHz)**  
**Tx-Power: 20 dBm**  
**Signal: 0 dBm | Noise: 0 dBm**  
**Bitrate: 0.0 Mbit/s | Country: 00**

Wireless network is enabled **DISABLE**

Operating frequency Mode Channel Width  
N 11 (2462 Mhz) 20 MHz

Maximum transmit power driver default - Current power: 20 dBm  
Specifies the maximum transmit power the wireless radio may use. Depending on regulatory requirements and wireless usage, the actual transmit power may be reduced by the driver.

4

General Setup Wireless Security MAC-Filter Advanced Settings

Mode Access Point

**ESSID** GDWiFi\_484BE7 **Modify SSID** 5

Network lan:

Choose the network(s) you want to attach to this wireless interface or fill out the *create* field to define a new network.

Hide **ESSID** ☐

WMM Mode ☒

DISMISS SAVE

Bind the corresponding WAN port

General Setup Wireless Security MAC-Filter Advanced Settings

Mode Access Point

**ESSID** GDWiFi\_484BE7

6 Network lan: wan6:

☒ lan:

Hide **ESSID** ☐

WMM Mode ☒

☐ wan6:

☐ custom --

interface or fill out the *create* field to define a new network.

DISMISS SAVE

Set the encryption mode of WiFi

Wireless Network: Master "GDWiFi\_484BE7" (wlan0)

General Setup Advanced Settings

Status **Mode: Master | SSID: GDWiFi\_484BE7**  
**BSSID: 00:23:1F:48:4B:E7**  
**Encryption: None**  
**Channel: 11 (2.462 GHz)**  
**Tx-Power: 20 dBm**  
**Signal: 0 dBm | Noise: 0 dBm**  
**Bitrate: 0.0 Mbit/s | Country: 00**

Wireless network is enabled **DISABLE**

Operating frequency Mode Channel Width  
N 11 (2462 Mhz) 20 MHz

Maximum transmit power driver default - Current power: 20 dBm  
Specifies the maximum transmit power the wireless radio may use. Depending on regulatory requirements and wireless usage, the actual transmit power may be reduced by the driver.

7

General Setup **Wireless Security** MAC-Filter Advanced Settings

Encryption No Encryption (open network) **WPA2-PSK (strong security)** WPA-PSK/WPA2-PSK Mixed Mode (medium security) WPA-PSK (medium security) WEP Open System (weak security) WEP Shared Key (weak security) No Encryption (open network)

8

DISMISS SAVE

Set WiFi password

Wireless network is enabled

DISABLE

Mode

Channel

Width

Operating frequency

N

11 (2462 Mhz)

20 MHz

Maximum transmit power

driver default

- Current power: 20 dBm

Specifies the maximum transmit power the wireless radio may use. Depending on regulatory requirements and wireless usage, the actual transmit power may be reduced by the driver.

General Setup

Wireless Security

MAC-Filter

Advanced Settings

Encryption

WPA2-PSK (strong security)

set encryption mode

9

Cipher

auto

Key

\*\*\*\*\*

set wifi password

802.11r Fast Transition

☐

Enables fast roaming among access points that belong to the same Mobility Domain

802.11w Management Frame Protection

Disabled

Requires the 'full' version of wpa2d/hostapd and support from the wifi driver (as of Jan 2019: ath9k, ath10k, mwifi and mt76)

Enable key reinstallation (KRACK) countermeasures

☐

Complicates key reinstallation attacks on the client side by disabling retransmission of EAPOL-Key frames that are used to install keys. This workaround might cause interoperability issues and reduced robustness of key negotiation especially in environments with heavy traffic load.

DISMISS

10

SAVE

After the configuration is completed, click“ save&apply” to apply the configuration

Wireless Overview

radio0

MediaTek MT76x8 802.11bgn

Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s

SSID: GDWiFi\_484BE7 | Mode: Master

Interface has 3 pending changes

RESTART

SCAN

ADD

DISABLE

EDIT

REMOVE

Associated Stations

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
No information available				

11

SAVE & APPLY

SAVE

RESET

Wireless Overview

radio0

MediaTek MT76x8 802.11bgn

Channel: 11 (2.462 GHz) | Bitrate: 52 Mbit/s

SSID: GDWiFi\_484BE7 | Mode: Master

BSSID: 00:23:1F:48:4B:E7 | Encryption: WPA2 PSK (CCMP)

RESTART

SCAN

ADD

DISABLE

EDIT

REMOVE

Associated Stations

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate	Disconnect
Master (wlan0) "GDWiFi_484BE7"	28:10:7B:4C:8E:69	LB-20130123OTAO.lan (192.168.1.204, fe80::c8bba139:6719:f5bf)	100%	1.0 Mbit/s, 20MHz 52.0 Mbit/s, 20MHz, MCS 11	DISCONNECT

SAVE & APPLY

SAVE

RESET