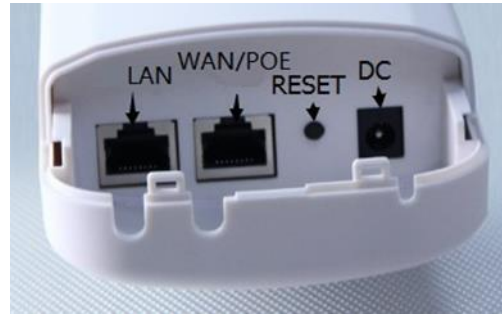


Инструкция по настройке QWO-450-AC-CPE





Используйте источник питания 12 В постоянного тока или адаптер 24 В PoE, порт WAN /PoE .

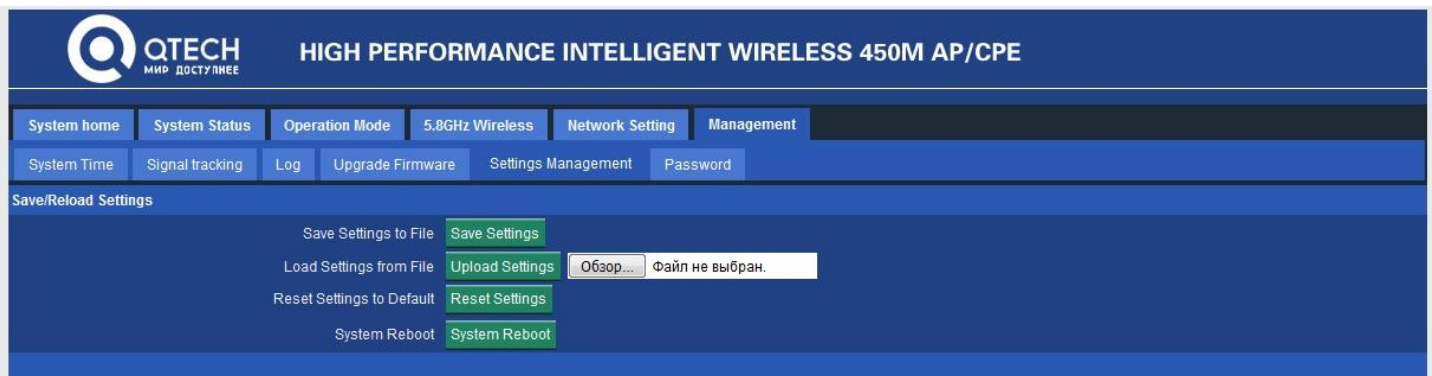
Способ подключения CPE, адаптера PoE и ПК: порт POE должен подключаться к порту WAN / POE CPE. ПК к порту LAN блока PoE



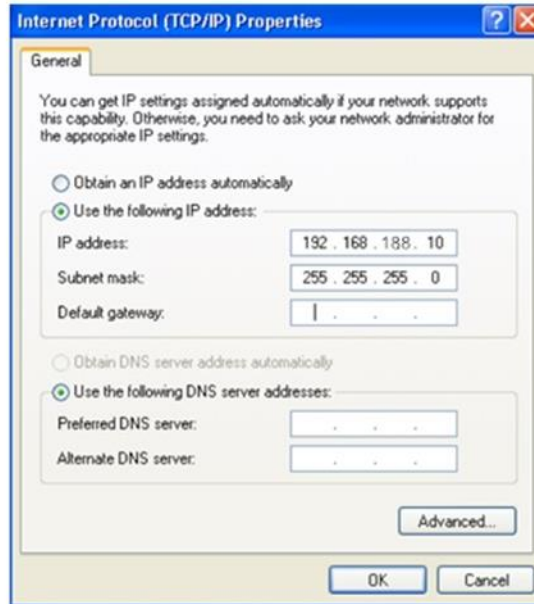
Сброс

Нажмите кнопку Reset на CPE более 15 секунд, затем отпустите, устройство перезагрузится и восстановится до заводских настроек

Также можно сбросить CPE на вкладке Management

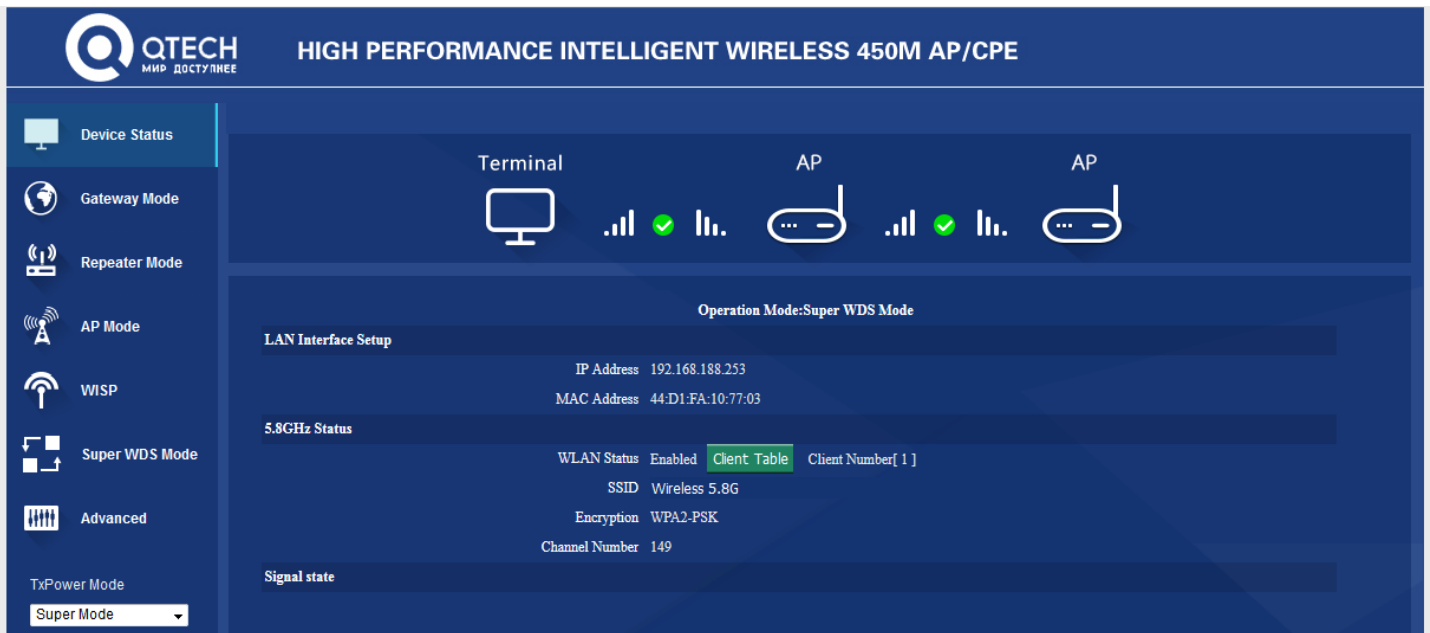


Настройка IP адреса для компьютера



В адресной строке IE браузера прописываем адрес AP 192.168.188.253 в окне авторизации вводим login : Admin, Passwords: admin

После входа в систему вы можете увидеть текущее состояние CPE: текущий режим работы, состояние WLAN



QTECH
МИР ДОСТУПНЕЕ

HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE

Terminal AP AP

Operation Mode: Super WDS Mode

LAN Interface Setup

IP Address	192.168.188.253
MAC Address	44:D1:FA:10:77:03

5.8GHz Status

WLAN Status	Enabled	Client Table	Client Number[1]
SSID	Wireless 5.8G		
Encryption	WPA2-PSK		
Channel Number	149		

Signal state

TxPower Mode
Super Mode

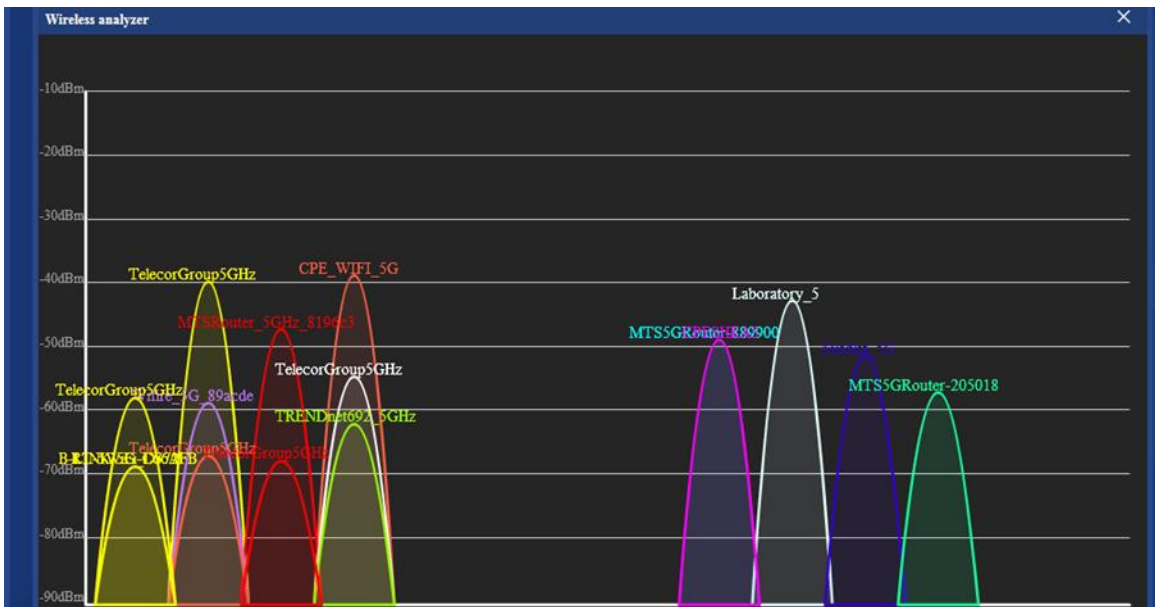
Быстрая настройка

Gateway Mode:

Нажмите «**Gateway Mode**» на следующем рисунке и выберите правильный тип доступа к глобальной сети: динамический IP или PPPOE. Если вы выбираете PPPOE, вы должны заполнить имя пользователя и пароль, предоставляемый провайдером. Введите SSID, ключ (пароль SSID), аутентификацию (тип шифрования) и канал по вашему желанию. Анализатор спектра поможет вам выбрать лучший канал в соответствии с текущей средой.

The screenshot shows the configuration page for a QTECH wireless device in Gateway Mode. The interface is dark-themed with a blue sidebar on the left containing navigation options: Device Status, Gateway Mode (selected), Repeater Mode, AP Mode, WISP, Super WDS Mode, and Advanced. Below the sidebar, system information is displayed: TxPower Mode (Super Mode), CPU Frequency (520MHz), System Memory (512M), and CPU Usage (3%). The main configuration area is titled 'Gateway Mode(Basic structure of the network graph)' and includes sections for WAN Access Type (Dynamic IP), PPPOE(ADSL) (User Name and Password fields), and 5.8GHz Basic settings (SSID: Wireless 5.8G, Channel: 149 - 5745MHz, Authentication: WPA2-PSK, Cipher Suite: TKIP/AES, Key: 66666666). A green 'Apply Changes' button is located at the bottom right.

Gateway Mode

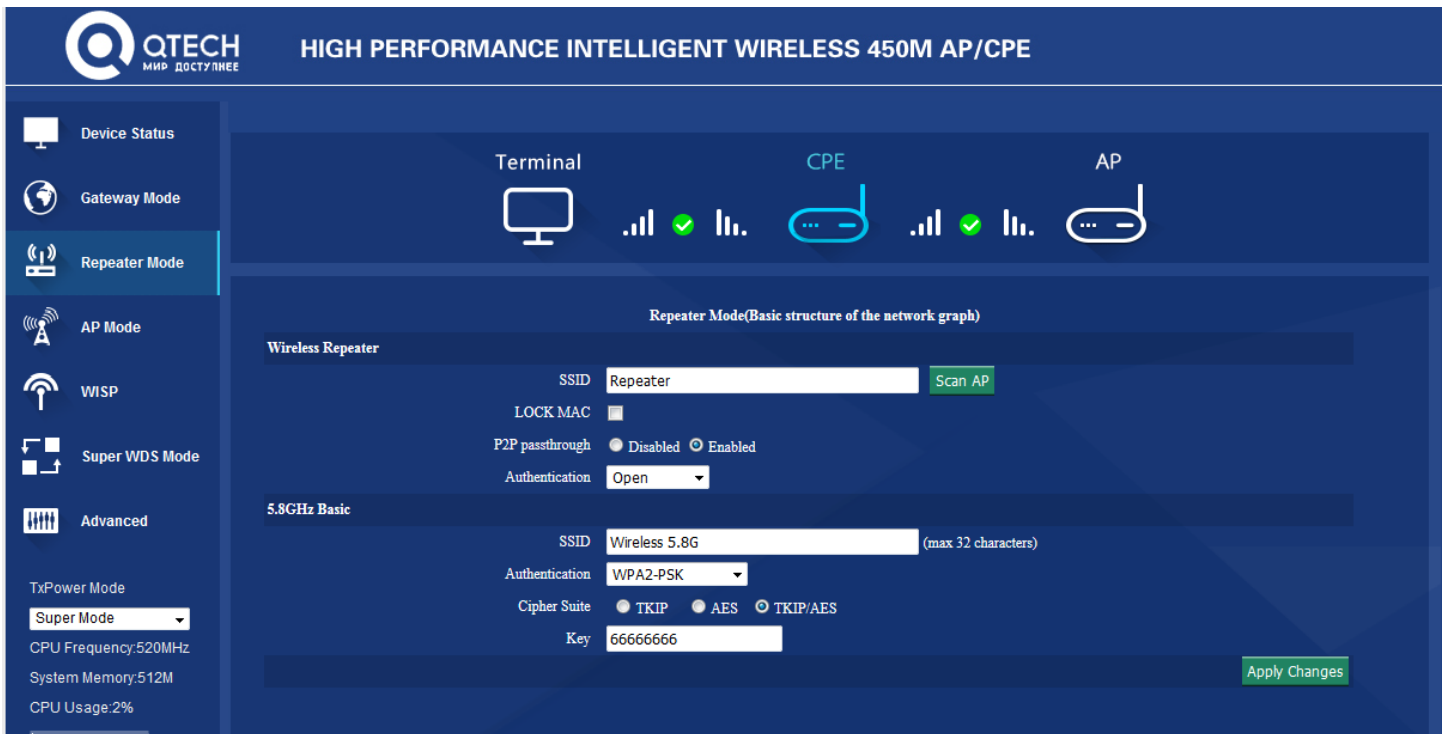


Wireless analyzer

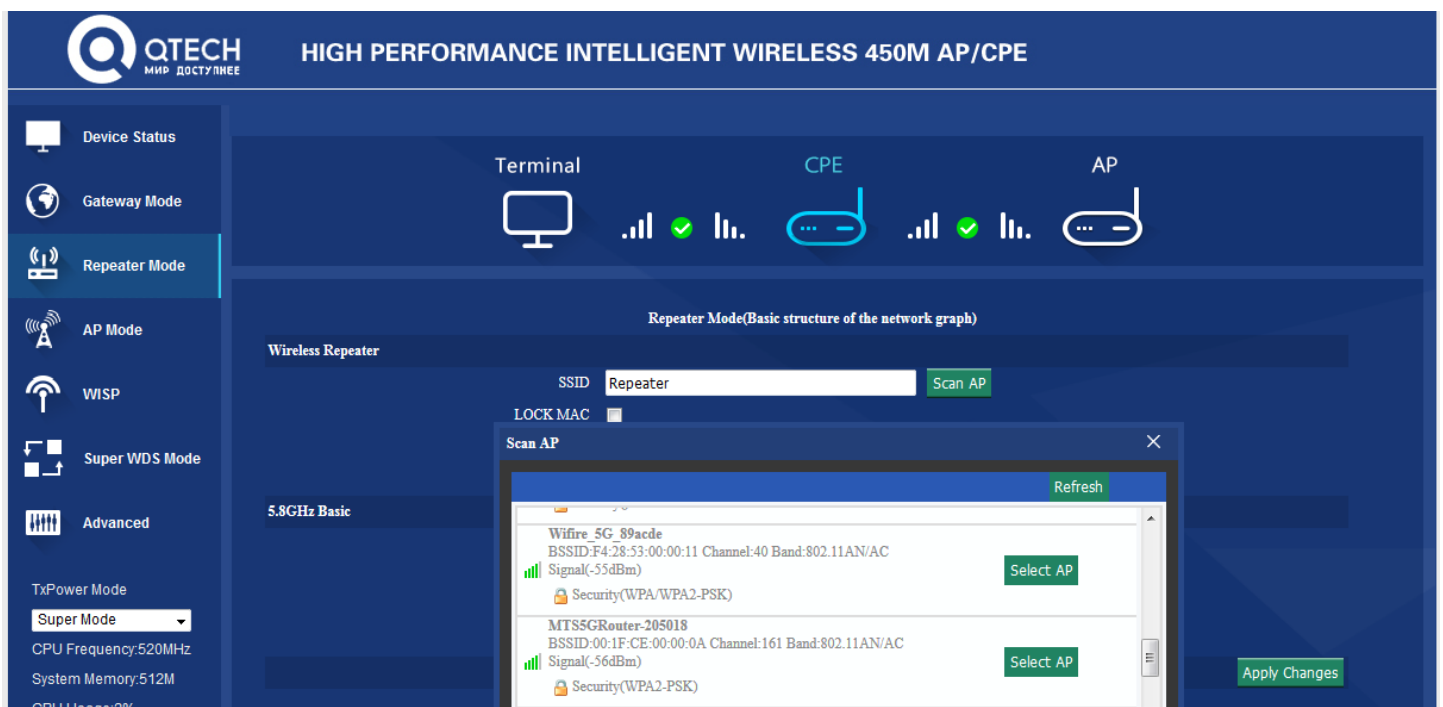
Режим Repeater mode

Режим **Repeater**: точка подключается к AP беспроводным мостом транслируя в прозрачном режиме настройки AP увеличивая зону покрытия.

Нажмите кнопку Scan AP в выпадающем меню выберите нужную точку AP и примените настройки.



Repeater mode



Scan AP

Режим AP Mode

Режим AP: беспроводное подключения клиентов к AP для выхода в сеть WAN интернет

The screenshot shows the QTECH web interface for configuring a 450M AP/CPE. The top header includes the QTECH logo and the text "HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE". A navigation menu on the left lists various modes: Device Status, Gateway Mode, Repeater Mode, AP Mode (selected), WISP, Super WDS Mode, and Advanced. Below the menu, there are system status indicators for TxPower Mode (Super Mode), CPU Frequency (520MHz), and System Memory (512M). The main content area is titled "AP Mode(Basic structure of the network graph)" and features three icons: Terminal, AP (highlighted in blue), and Switch. The AP Mode configuration section includes fields for "Location Information" (AP Location and AP Name), "5.8GHz Basic" settings (SSID: Wireless 5.8G, Channel: 149 - 5745MHz, Authentication: WPA2-PSK, Cipher Suite: TKIP/AES selected, Key: 66666666), and an "Apply Changes" button.

Настройте местоположение и имя AP . Введите SSID, аутентификацию (тип шифрования) и канал по вашему желанию. Анализатор спектра поможет вам выбрать лучший канал в соответствии с текущей средой. Затем Apply Chnges

Режим WISP

Режим **WISP** используется для подключения к беспроводной точке провайдера по радио для выхода в WAN интернет

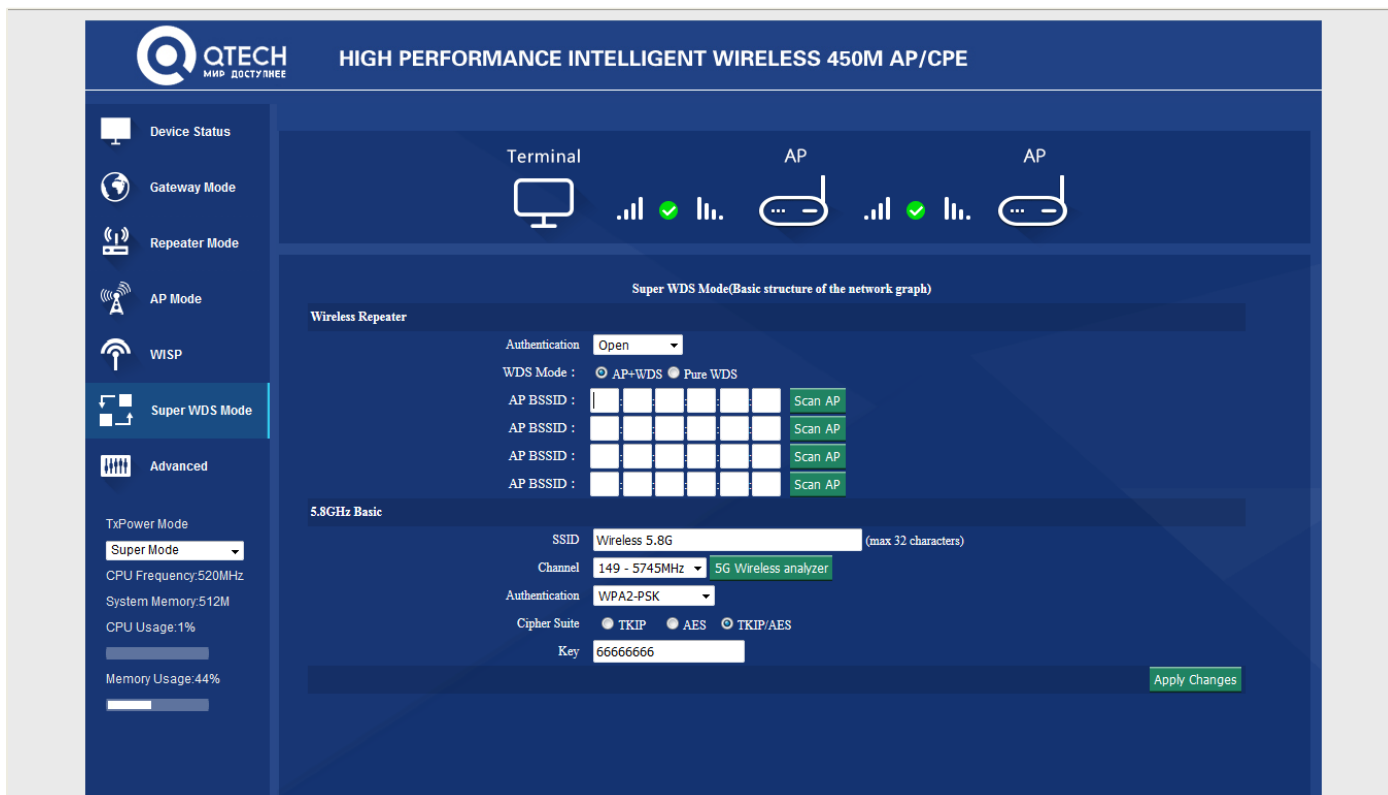
The screenshot displays the QTECH web interface for configuring a wireless device. The top header includes the QTECH logo and the text "HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE". A navigation menu on the left lists various modes: Device Status, Gateway Mode, Repeater Mode, AP Mode, **WISP** (selected), Super WDS Mode, and Advanced. Below the menu, system status is shown: TxPower Mode is set to Super Mode, CPU Frequency is 520MHz, System Memory is 512M, CPU Usage is 2%, and Memory Usage is 44%. The main configuration area is titled "WISP(Basic structure of the network graph)" and shows a network diagram with CPE, AP, and Internet components. The configuration fields are as follows:

- WAN Access Type:** Dynamic IP
- PPPOE(ADSL):** User Name and Password fields.
- Wireless Repeater:** SSID: Repeater, LOCK MAC: , Authentication: Open. A "Scan AP" button is present.
- 5.8GHz Basic:** SSID: Wireless 5.8G (max 32 characters), Authentication: WPA2-PSK, Cipher Suite: TKIP (selected), AES, TKIP/AES. Key: 66666666. An "Apply Changes" button is at the bottom right.

Настройте режим доступа WAN.Нажмите ScanAP выберите точку AP и метод шифрования Затем Apply Changes

Режим Super WDS Mode

WDS - технология, позволяющая расширить зону покрытия беспроводной сети путем объединения нескольких WiFi точек доступа в единую сеть без необходимости наличия проводного соединения между ними



Выберите AP, канал, режим WDS и аутентификация должны быть одинаковыми.

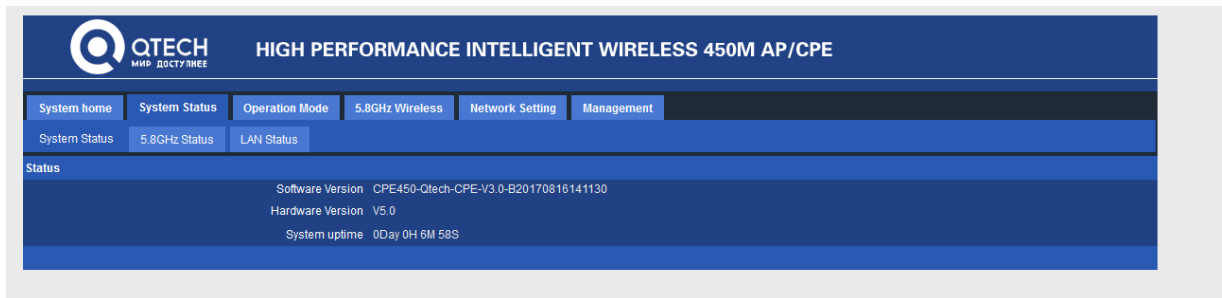
WDS Mode: AP-WDS к точке можно подключаться клиентскими устройствами CPE соединены радиомостом.

Pure WDS точки соединены радиомостом.

Advanced

System Status

В статусе системы вы увидите версию прошивки, время безотказной работы системы.

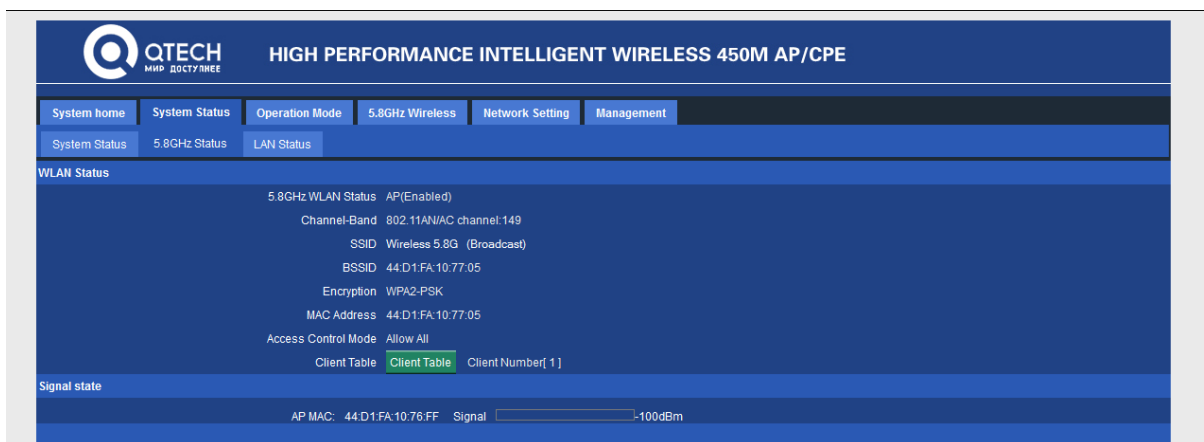


The screenshot shows the 'System Status' page of the QTECH interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'System Status' sub-menu is active, showing '5.8GHz Status' and 'LAN Status'. The main content area displays the following information:

Software Version	CPE450-Qtech-CPE-V3.0-B20170816141130
Hardware Version	V5.0
System uptime	0Day 0H 6M 58S

5.8GHz Wireless Status

Основная информация по базовым настройкам беспроводной сети 5.8ГГц



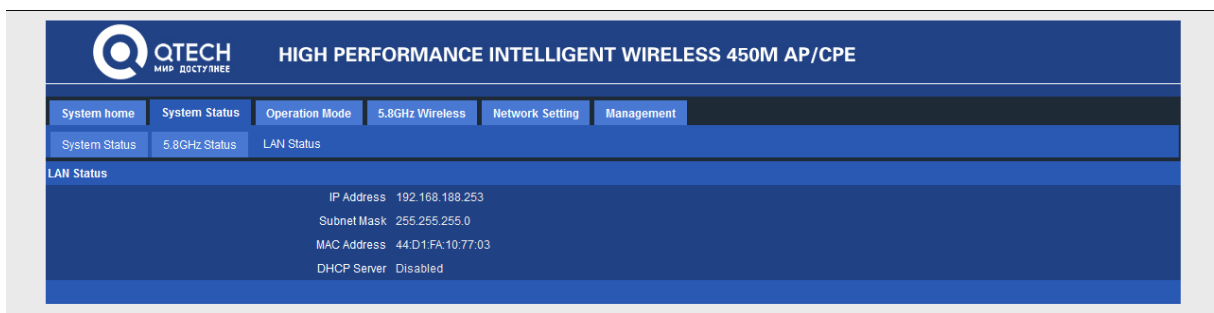
The screenshot shows the '5.8GHz Wireless Status' page. The navigation menu is the same as in the previous screenshot, but '5.8GHz Wireless' is selected. The 'WLAN Status' section displays the following configuration:

5.8GHz WLAN Status	AP(Enabled)
Channel-Band	802.11AN/WAC channel:149
SSID	Wireless 5.8G (Broadcast)
BSSID	44:D1:FA:10:77:05
Encryption	WPA2-PSK
MAC Address	44:D1:FA:10:77:05
Access Control Mode	Allow All
Client Table	Client Table Client Number[1]

The 'Signal state' section shows: AP MAC: 44:D1:FA:10:76:FF Signal -100dBm

LAN status

Настройки LAN



The screenshot shows the 'LAN Status' page. The navigation menu is the same as in the previous screenshots, but 'LAN Status' is selected. The main content area displays the following LAN configuration:

IP Address	192.168.188.253
Subnet Mask	255.255.255.0
MAC Address	44:D1:FA:10:77:03
DHCP Server	Disabled

Operation Mode

Описание основных режимов работы CPE

Operation Mode

- Gateway Mode**: In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPoE, DHCP client or static IP.
- Repeater Mode**: In this mode, all ports are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
- WISP Mode**: In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless LAN. You must set the wireless to client mode first and connect to the ISP AP in Site Survey page. The connection type can be setup in WAN page by using PPPoE, DHCP client or static IP.
- AP Mode**: In this mode, the AP wireless interface and cable interface bridging together. Without NAT, firewall and all network related functions.
- Super WDS Mode**: In this mode, the wireless interface can be connected with other wireless AP through WDS, and the wireless interface and cable interface. Without NAT, firewall and all network related functions.

[Apply Changes](#)

5.8GHz Wireless

5GHz Basic

В этой вкладке пользователь может настроить SSID, тип шифрования, пароль SSID. Анализатор поможет вам выбрать лучший канал в соответствии с текущей средой.

5.8GHz Basic

Wireless Basic Settings

Status: Disabled Enabled

Mode: AP

SSID: Wireless 5.8G (max 32 characters)

Band: 802.11n/A/C

Broadcast SSID: Disabled Enabled

WMM: Disabled Enabled

Channel

Channel Width: 40MHz

Channel Number: 149 - 5745MHz [5G Wireless analyzer](#)

Security

Authentication: WPA2-PSK

Cipher Suite: TKIP AES TKIP/AES

Key: 66666666

[Apply Changes](#)

5.8GHz Virtual AP

5.8GHz Virtual AP

Wireless VAP Settings

VAP Interface: Disabled Enabled

SSID: (max 32 characters)

Broadcast SSID: Disabled Enabled

WMM: Disabled Enabled

Authentication: Open

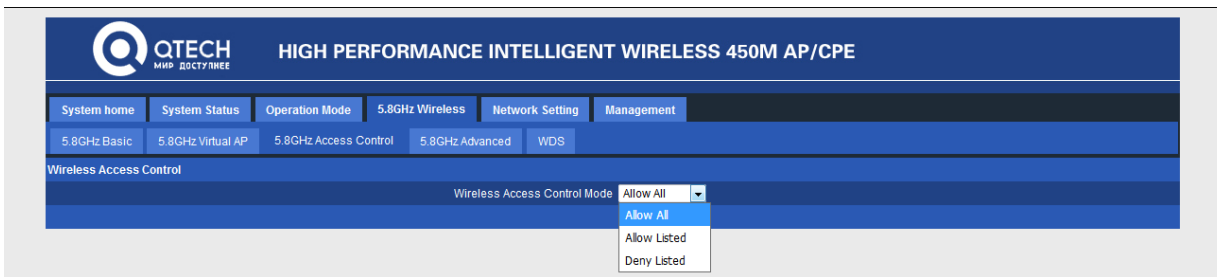
Status	SSID	Broadcast SSID	WMM	Security	
<input type="checkbox"/> (Off)	VAP0	Enabled	Enabled	Open	Apply Changes Edit Reset
<input type="checkbox"/> (Off)	VAP1	Enabled	Enabled	Open	Edit Reset
<input type="checkbox"/> (Off)	VAP2	Enabled	Enabled	Open	Edit Reset

[Apply Changes](#)

Настройка виртуальных сетей с разными SSID

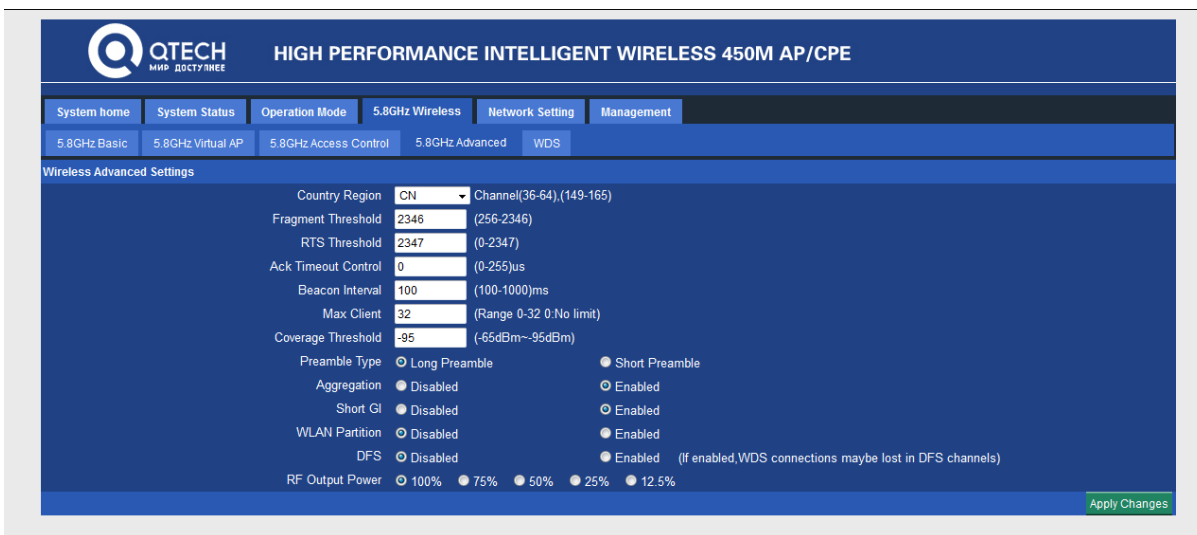
5.8GHz Access Control

Настройка доступа.



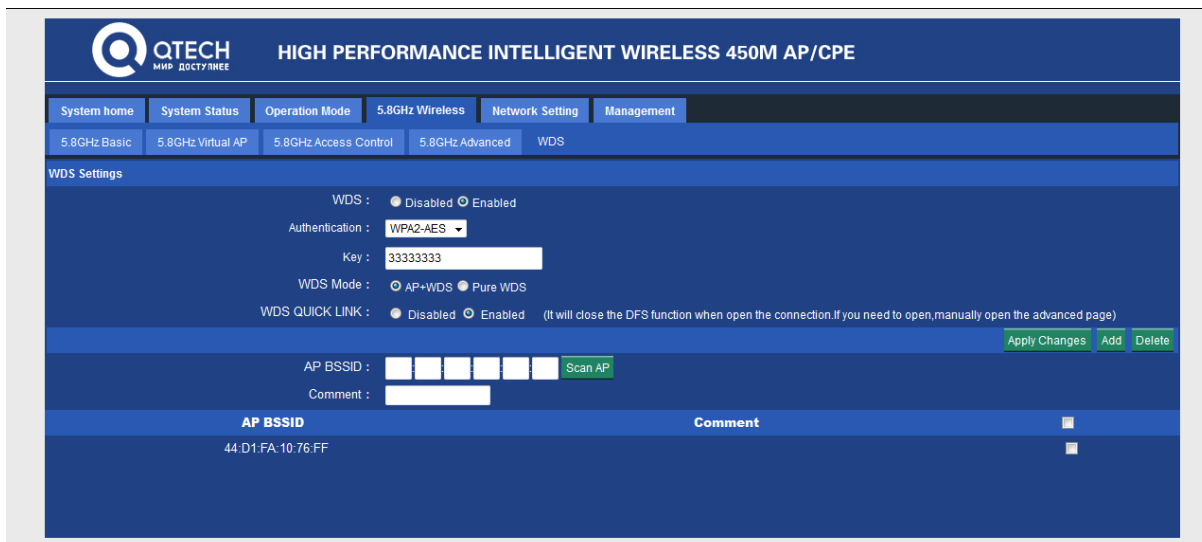
5.8G Advanced

Расширенные настройки



WDS

Расширенные настройки



Network Setting

Настройка LAN интерфейса

The screenshot shows the 'LAN Interface Setup' page in the QTECH web interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'LAN Interface Setup' section contains the following fields:

- Access Type: Fixed IP
- IP Address: 192.168.188.253
- Subnet Mask: 255.255.255.0
- Management Server IP: 192.168.188.1
- DHCP Server: Disabled Enabled
- DHCP Client Range: 192.168.188.2 - 192.168.188.252
- Lease Time(sec): 86400 (300-86400)

An 'Apply Changes' button is located at the bottom right of the configuration area.

Management

System Time

Вы можете выбрать часовой пояс. Синхронизация с сервером времени доступна только в режиме Gateway, WISP.

The screenshot shows the 'Time Zone Setting' page in the QTECH web interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'Time Zone Setting' section contains the following fields:

- Current Time: 1970-01-01 01:07:05 Sync with host
- Time Zone Select: (GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi
- Enable NTP client update:
- NTP Server: time.windows.com 0.0.0.0 (Manual IP Setting)
- When device running at: 3 day, automatic optimization system

An 'Apply' button is located at the bottom right of the configuration area.

Signal tracking

Измерение сигнала AP

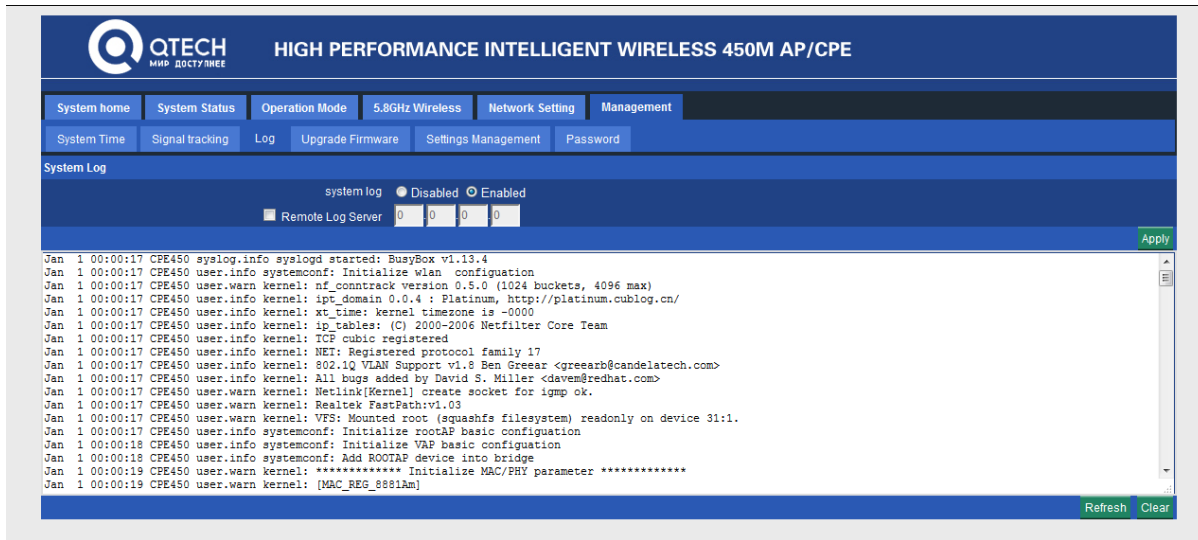
The screenshot shows the 'Wireless Repeater' page in the QTECH web interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'Wireless Repeater' section contains the following fields:

- SSID: Scan AP
- BSSID: tracking
- Signal Strength:
- track status: cease tracking

A note at the bottom of the page reads: "Note: In the procedure of signal tracking, the unexpected effects probably occur in Tx/Rx data transaction. Please press Stop Tracking button instantly after signal tracking."

Log

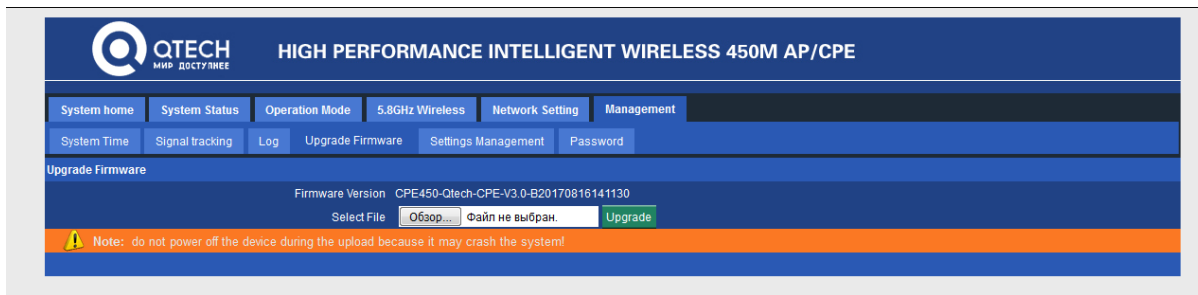
Включенный системный журнал поможет вам сохранить историю работы устройства. Вы можете скопировать журнал и отправить в техподдержку



The screenshot shows the 'System Log' page in the QTECH web interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'Log' tab is selected. Below the navigation, there are options to toggle 'system log' (currently Disabled) and 'Remote Log Server' (with fields for IP, port, and user). A list of system logs is displayed, showing timestamps and messages such as 'syslogd started: BusyBox v1.13.4', 'Initialize wlan configuration', and 'kernel: ip_tables: (C) 2000-2006 Netfilter Core Team'. At the bottom right, there are 'Refresh' and 'Clear' buttons.

Upgrade Firmware

Нажмите кнопку Обновление прошивки, затем просмотрите и выберите прошивку, которую необходимо обновить, затем нажмите «Обновить». После обновления перезагрузите устройство.



The screenshot shows the 'Upgrade Firmware' page in the QTECH web interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'Upgrade Firmware' tab is selected. Below the navigation, there is a 'Firmware Version' field showing 'CPE450-Qtech-CPE-V3.0-B20170816141130'. There is a 'Select File' button and a file selection area showing 'Обзор...' and 'Файл не выбран.'. An 'Upgrade' button is visible. A warning message at the bottom states: 'Note: do not power off the device during the upload because it may crash the system!'

Settings Management

Сохранение/загрузка настроек системы, сброс к заводским настройкам, перезагрузка CPE.



The screenshot shows the 'Settings Management' page in the QTECH web interface. The page title is 'HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE'. The navigation menu includes 'System home', 'System Status', 'Operation Mode', '5.8GHz Wireless', 'Network Setting', and 'Management'. The 'Settings Management' tab is selected. Below the navigation, there are options to 'Save Settings to File' (with a 'Save Settings' button), 'Load Settings from File' (with an 'Upload Settings' button and a file selection area showing 'Обзор...' and 'Файл не выбран.'), 'Reset Settings to Default' (with a 'Reset Settings' button), and 'System Reboot' (with a 'System Reboot' button).

Password

Изменение имени пользователя и пароля входа в систему

The screenshot shows a web interface for a QTECH device. At the top left is the QTECH logo with the tagline "МИР ДОСТУПНЕЕ". To the right of the logo is the text "HIGH PERFORMANCE INTELLIGENT WIRELESS 450M AP/CPE". Below this is a navigation menu with tabs: "System home", "System Status", "Operation Mode", "5.8GHz Wireless", "Network Setting", and "Management". Under "Network Setting", there are sub-tabs: "System Time", "Signal tracking", "Log", "Upgrade Firmware", "Settings Management", and "Password". The "Password" tab is selected, and the page title is "Password Setup". The form contains three input fields: "User Name", "New Password", and "Confirmed Password". An "Apply" button is located at the bottom right of the form.

System home		System Status		Operation Mode		5.8GHz Wireless		Network Setting		Management	
System Time	Signal tracking	Log	Upgrade Firmware	Settings Management	Password						
Password Setup											
User Name		<input type="text"/>									
New Password		<input type="password"/>									
Confirmed Password		<input type="password"/>									
											Apply