

# Ceres Enterprise High-performance Wireless Router

## Product Description

WR844 is a new generation enterprise high-performance wireless router launched by Shenzhen Ceres Technology Co., Ltd. (hereinafter referred to as Ceres). It is positioned in the SMB market of Ethernet/fiber/xDSL access, mainly including small and micro enterprises, corporate branch and families network environment of high-speed Internet access.

WR844 adopts Qualcomm enterprise chips and devices, provides 1\*100M WAN port and 4\*100M LAN ports, support 2.4G and 5.8G, max wireless rate is up to 733Mbps. It supports rich software functions, as a new generation of low-end flagship products, WR844 provides an ideal cost-effective product for small and micro enterprise, corporate branch and families.



## Product Features

### New hardware architecture

- Support Max 733Mbps wireless rate
- Support 802.11a/b/g/n and 802.11ac
- External 3\*5dBi antenna
- 5G is preferred, double frequency is combined, and automatic switching
- 2.4G/5G supports external power amplifier PA, independent RF circuit design, power greater than 100mW, coverage range is larger
- Standard 1U design, 0.6mm shell, the whole machine is light

### Intelligent terminal QoS policy

- The over-occupation of network bandwidth by P2P software such as BT and Thunder will affect the normal services of other users in the network. The MAC-based network traffic rate limiting mechanism can effectively control the uplink/downlink traffic of single PC and limits the excessive use of network bandwidth by P2P software
- Supports uplink and downlink QoS policy configuration to meet users flexible service configuration requirements

### Comprehensive system monitoring

- Provide real-time monitoring of intranet traffic, for traffic monitoring and statistics
- Provide multiple security logs, including real-time logs for internal and external network attack, address-binding logs, traffic alarm logs, and session logs, for network administrators to monitor network in real time.
- Operation state and safety state

## Green Design for Environment

- Professional green low carbon design, and the product meets the EU RoHS standards

## Product Specification

## Hardware Specification

Characteristic	WR844
Dimensions	250X162X 44mm
Interface	1*10/100Base-Tx Ethernet WAN port 4*10/100Base-Tx Ethernet WAN port 1*DC12V power port 1*Reset port
Rate	733Mbps
Antenna	External 3*7dBi high gain omnidirectional antennas
Wireless Transmit Power	2.4GHz: <ul style="list-style-type: none"> <li>✧ 11b 11Mbps: 20dBm;</li> <li>✧ 11g 6Mbps : 20dBm;</li> <li>✧ 11g 54Mbps: 19dBm;</li> <li>✧ 11n MCS7-HT20: 18dBm;</li> <li>✧ 11n MCS7-HT40: 18dBm;</li> </ul> 5GHz: <ul style="list-style-type: none"> <li>✧ 11a 6Mbps : 22dBm;</li> <li>✧ 11a 54Mbps : 20dBm;</li> <li>✧ 11n MCS7-HT20: 20dBm;</li> <li>✧ 11n MCS7-HT40: 20dBm;</li> <li>✧ 11ac MCS8-VHT20 : 20dBm;</li> <li>✧ 11ac MCS9-VHT40 : 20dBm;</li> <li>11ac MCS9-VHT80 : 18dBm;</li> </ul>
Receiver Sensitivity	2.4GHz: <ul style="list-style-type: none"> <li>✧ 11b 1Mbps: -96 dBm;</li> <li>✧ 11b 11Mbps: -90 dBm;</li> <li>✧ 11g 6Mbps: -91 dBm;</li> <li>✧ 11g 54Mbps: -75 dBm;</li> <li>✧ 11n MCS7-HT20: -70 dBm;</li> <li>✧ 11n MCS7-HT40: -67 dBm;</li> </ul> 5GHz: <ul style="list-style-type: none"> <li>✧ 11a 6Mbps: -91 dBm;</li> <li>✧ 11a 54Mbps : -75 dBm;</li> <li>✧ 11n MCS7-HT20: -70 dBm;</li> <li>✧ 11n MCS7-HT40: -67 dBm;</li> <li>✧ 11ac MCS8-VHT20: -65 dBm;</li> <li>✧ 11ac MCS9-VHT40: -60 dBm;</li> <li>✧ 11ac MCS9-VHT80: -58 dBm</li> </ul>

## Ceres Product Datasheet

CPU	Qualcomm
Memory	64MB RAM
Flash	16MB
Power supply	DC input, 12V/1A
Operating Temperature	-10~50°C
Storage Temperature	-40~85°C
Operating Humidity	5~95% (non condensation)
Consumption	<10W
Certification	CE, ROHS

## Software Specification

Characteristic	WR844
Network protocol	PPPoE DHCP client DHCP server
Internet mode	PPPoE Static IP DHCP
Wireless	2.4G, 5G Support national channel selection Signal strength selection WI-FI timing function
System service	ALG (IPsec, L2TP, FTP) Port Mapping DMZ host Remote WEB Telnet server DDNS
Security	IP filter MAC filter URL filter Port filter
QoS	Network speed statistics for connected devices MAC-based network traffic rate limit
Time synchronization	Time-zone selection NTP client Can add candidate NTP server
Management	Setup Wizard for quick and easy configuration Management password modification Route restart, restore factory Firmware upgrade (retain the original configuration)
System log	System log

## Ordering Information

Product Model	Product Description
WR844	1*10/100Base-Tx Ethernet WAN port, 4*10/100Base-Tx Ethernet LAN port, external 3*7dBi antenna, support 2.4G/5G dual-frequency, support 802.11a/b/g/n/ac protocol, max wireless rate 733Mbps, Qualcomm chip, 12VDC power supply