

CERES SOHO High Performance WIFI6 Router

Overview

WR525-AX1800 is a new generation SOHO high-performance wireless router launched by Shenzhen Ceres Technology Co., Ltd. (hereinafter referred to as Ceres). It is positioned in the access network market of Ethernet/fiber/xDSL access, mainly including small and micro enterprises, families network environment of high-speed Internet access.

WR525-AX1800 is high performance WIFI6 router has 2.4g 2X2 and 5G 2X2 omnidirectional multi-band high-gain antennas, 802.11AC MU-MIMO supports Wave2. The multi-oscillator high-gain omnidirectional antenna has strong ability to pass through the wall and has a wider coverage, making the already strong signal more powerful, signal coverage is wider and data transmission is smoother. Mu-mimo multi-device transceiver technology has low latency and stable connection of multiple devices at the same time to ensure a good experience of using multiple devices. WR525-AX1800 adopts MTK chip, provides 1*1000M WAN port and 4*1000M LAN ports, support 2.4G and 5.8G, max wireless rate is up to 1.8Gbps. It supports rich software functions, as a new generation of high-end flagship products.

WR525-AX1800 is an ideal cost-effective product for small and micro enterprise and families.





Product Features

New hardware architecture

- Support Max 1800Mbps wireless rate
- Support 802.11a/b/g/n/ac/ax
- External 4*7dBi antenna
- 5G is preferred, double frequency is combined, and automatic switching
- 2.4G/5G optional supports external power amplifier PA, independent RF circuit design, power greater than 100mW, coverage range is larger
- The shell is beautiful and 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	WR525-AX1800-M10
Dimensions	234×148×31mm
Interface	1*10/100/1000 Base-Tx Ethernet WAN port 6*10/100/1000 Base-Tx Ethernet LAN port 1*DC12V power port 1*Reset port
WIFI Speed	◇ 2.4G WiFi: 2*2 (Speed 573Mbps) ◇ 5G WiFi: 2*2 (Speed 1201Mbps)
Frequency	◇ 2.4G WiFi Frequency: 2.4GHz~2.4835GHz ◇ 5G WiFi Frequency: 5.150GHz~5.85GHz
Antenna	external 4*5dBi high gain omnidirectional antennas
Wireless Transmit Power	2.4GHz ◇ 11b 11Mbps: 22dBm; ◇ 11g 6Mbps : 21dBm; ◇ 11g 54Mbps: 20dBm; ◇ 11n MCS0-HT20: 21dBm; ◇ 11n MCS7-HT20: 19dBm; ◇ 11ax MCS11-HE20: 16dBm; ◇ 11n MCS7-HT40: 19dBm; ◇ 11ac MCS9-VHT40: 17dBm; ◇ 11ax MCS11-HESU40: 16dBm; 5GHz: ◇ 11a 6Mbps : 21dBm; ◇ 11a 54Mbps : 19dBm; ◇ 11ac MCS8-VHT20 : 17dBm; ◇ 11ax MCS11-HE-SU20 : 16dBm; ◇ 11ac MCS9-VHT40 : 17dBm; ◇ 11ax MCS11-HE-SU40 : 16dBm ◇ 11ac MCS9-VHT80 : 17dBm;

	◇ 11ax MCS11-HE-SU80 : 16dBm
Receiver Sensitivity	<p>2.4GHz:</p> <ul style="list-style-type: none"> ◇ 11b 1Mbps: -96 dBm; ◇ 11b 11Mbps: -90 dBm; ◇ 11g 6Mbps: -91 dBm; ◇ 11g 54Mbps: -75 dBm; ◇ 11n MCS0-HT20: -91 dBm; ◇ 11n MCS7-HT20: -71 dBm; ◇ 11ax MCS0-HE-HESU20 :91dBm; ◇ 11ax MCS11-HE-HESU20 :62dBm; ◇ 11n MCS7-HT40: -70 dBm; ◇ 11ac MCS9-VHT40: -63 dBm; ◇ 11ax MCS11-HE-HESU40 :58dBm <p>5GHz:</p> <ul style="list-style-type: none"> ◇ 11a 6Mbps: -91 dBm; ◇ 11a 54Mbps : -75 dBm; ◇ 11n MCS0-HT20: -91 dBm; ◇ 11n MCS7-HT20: -71 dBm; ◇ 11ax MCS0-HE-HESU20 :91dBm; ◇ 11ax MCS11-HE-HESU20 :62dBm; ◇ 11n MCS7-HT40: -70 dBm; ◇ 11ac MCS9-VHT40: -63 dBm; ◇ 11ax MCS11-HE-HESU40 :58dBm ◇ 11ac MCS9-VHT80: -58 dBm; ◇ 11ax MCS11-HE-HESU80 :54dBm
CPU	MTK CPU MT7621A MIPS dual core 880MHz
Chipset	MT7621+MT7905+MT7975
Memory	128MB DDR3 RAM
Flash	16MB
Power supply	DC12V/1.5A
Operating Temperature	-10~50℃
Storage Temperature	-40~70℃
Operating Humidity	5~95%(non condensation)
Consumption	<15W
Certificate	CCC,ROHS

Software Specification

Characteristic	WR525-AX1800-M10
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

Order Information

Product Model	Product Description
WR525-AX1800-M10	1*10/100/1000 Base-Tx Ethernet WAN port,4*10/100/1000 Base-Tx Ethernet LAN port,external 4*7dBi antenna, support 2.4G/5G dual-frequency, support 802.11a/b/g/n/ac/ax wave2 protocol,wireless rate up to 1800Mbps, 12VDC power supply