

## Datasheet

# Wi-Fi 6 1800Mbps Dual-Band SD-LAN Wireless Router

WK-R1800



## Overview

WK-R1800 is a high-performance wireless router which provides wireless speed of up to 1800Mbps, making it ideal for CCTV, office, and home scenarios. Equipped with 1 1000Mbps RJ45 WAN Port and 3 1000Mbps RJ45 LAN Port, WK-R1800 provides simple and reliable wired connections to Laptops, PCs or IP Cameras. Armed with Wi-Fi 6 technology like OFDMA, 1024-QAM and the latest 802.11ax standard, WK-R1800 is designed to deliver a huge boost in coverage, speed and total capacity. With 4 working modes all in one (Wireless Router, Access Point, Repeater, WISP mode), WK-R1800 can meet the demand for different networking scenarios.

## Features

### Ultra-fast Wi-Fi 6

Complied with Wi-Fi 6 802.11ax and wireless speed of up to 1800Mbps, which enables faster speeds, greater capacity and reduced network congestion.

### MU-MIMO, OFDMA, 1024-QAM Technology

Support MU-MIMO, OFDMA, 1024-QAM, which ensures more simultaneous clients online and reduced latency and interference.

### EasyMesh Technology

Support EasyMesh technology, which makes router units work together to boost Wi-Fi Coverage.

**\*Note: EasyMesh devices can be networked only with devices that support EasyMesh standard.**

### Full Gigabit Ethernet Design

Full Gigabit Ethernet port design, which allows you to take full advantage of your broadband speed up to 1 Gbps.

## High-gain Antennas

External 4 x 5dbi antenna for maximum all-round wireless coverage and reliability.

## SD-LAN Technology

SD-LAN technology provides centralized control, making it easy to manage your network infrastructure.

## Abundant Working Modes

Four working modes all in one(Wireless Router, Access Point, Repeater, WISP mode), which caters to multiple networking scenarios.

## Cloud Management

Wi-Tek Cloud Management for easy management and maintenance.

# Specifications



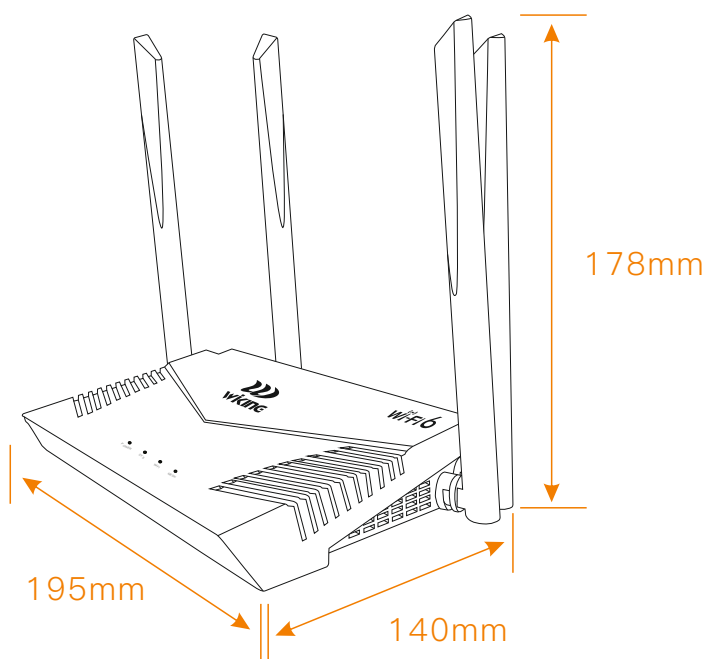
Model	WK-R1800
Hardware Version	V1.0
Hardware Features	
Memory	RAM: 256MB Flash: 128MB
Interface	WAN: 1*Gigabit RJ45 Port LAN: 3*Gigabit RJ45 Ports
Max. Power Consumption	12W
Power Supply	DC 12V/1A
Button	MESH Button Reset Button (long press for 8 seconds to restore the factory default configuration)
Wireless Features	
Standards	IEEE 802.11a/b/g/n/ac/ax
Max/ Recommended Clients	90/ 50
Data Rates	2.4GHz: up to 574Mbps 5GHz: up to 1201Mbps
MIMO	2.4GHz: 2x2 MIMO 5GHz: 2x2 MIMO
Antenna	2.4GHz: 5dBi 5GHz: 5dBi
Frequency	2.4GHz: 2.4GHz ~ 2.484 GHz 5GHz: 5.150 ~ 5.850 GHz *Please follow national regulations to select the appropriate frequency.
Channel Width	20/40/80MHz
Max. TX power	2.4GHz: 23dBm 5GHz: 21 dBm

Model	WK-R1800
Receiver Sensitivity	<p><b>5 GHz:</b></p> <p>11a 6Mbps:-95dBm, 11a 54Mbps:-77dBm            1ac VHT20_MCS8:-71dBm            11ac VHT40_MCS9:-66dBm            11ac VHT80_MCS9:-63dBm            11ax HE20_MCS11:-64dBm            11ax HE40_MCS11:-62dBm            11ax HE80_MCS11:-59dBm</p> <p><b>2.4 GHz:</b></p> <p>11g 6Mbps: -96 54Mbps: -80dBm            11n HT20-MCS7: -76dBm            11n HT40-MCS7: -73dBm</p>
Software Features	
Operating Mode	Wireless Router, Access Point, Repeater, WISP
Advanced Applications	EasyMesh SD-LAN
WAN Type	Dynamic IP, Static IP, PPPoE
Protocols	IPv4, IPv6
DHCP	DHCP Server, DHCP Pool, DHCP, DHCP Lease, DNS Server, Host List
Routing	Routing Table, ARP Table
Wireless	Enable/disable SSID, Hide SSID, Wi-Fi Isolate Multiple SSID, Wireless Statistics Wi-Fi Multimedia (WMM)
Radio	Region Adjustment Channel Adjustment Bandwidth Adjustment Tx Power Adjustment Weak Signal Threshold Setting
Wireless Security	WPA-PSK(TKIP), WPA2-PSK(TKIP,CCMP), WPA2-PSK(CCMP), WPA2/PA3-PSK(CCMP,SAE), WPA3-PSK(SAE), WPA-Enterprise, WPA2-Enterprise

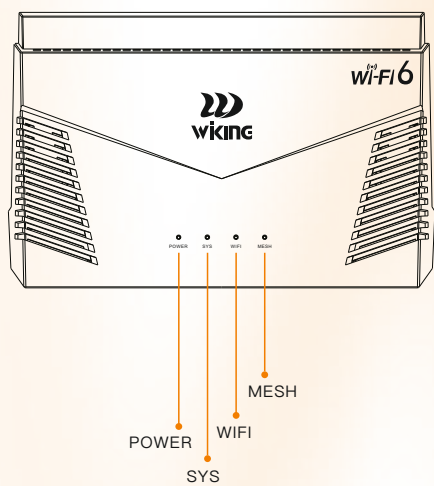
Model	WK-R1800
Port Forwarding	Port Mapping, DMZ
Access Control	Source/Destination IP Based Access Control, Wireless Blacklist/Whitelist
VPN Client	PPTP, L2TP
System	<p>Scheduled Reboot</p> <p>Ping Watchdog</p> <p>Diagnostics : Ping, Traceroute</p> <p>Restore &amp; Backup</p> <p>Firmware update via Web</p> <p>NTP</p> <p>Enable/disable ONVIF</p>
Management	<p>Support local management with web</p> <p>Support remote management with Wi-Tek Cloud platform and APP</p>
Others	
Certification	CE, FCC, RoHS, UKCA, RCM
Product Dimension	195mm*140mm*25mm
Environment	<p>Operating Temperature: -10°C~55°C(14°F~131°F)</p> <p>Storage Temperature: -40°C~70°C(-40°F~158°F)</p> <p>Operating Humidity: 10%~95% (non-condensing)</p> <p>Storage Humidity: 5%~95% (non-condensing)</p>

WK-R1800

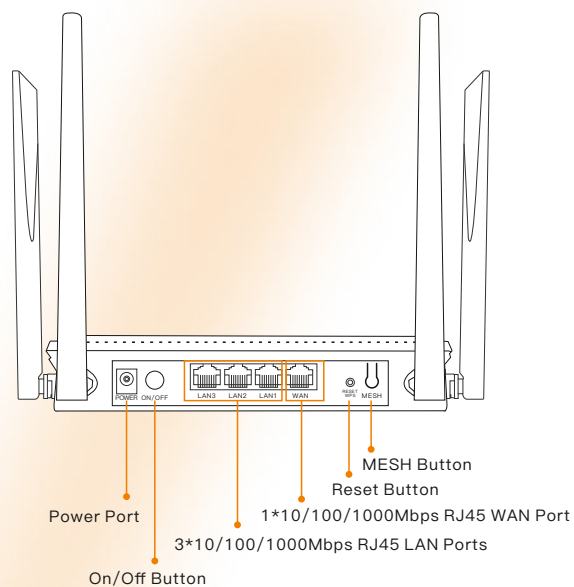
Dimensions (mm)



Front Panel



Rear Panel



## Package Contents

Welcome to order our products. After purchasing, you will receive:

Items	Quantity
Wireless Router	1 pcs
Ethernet Cable	1 pcs
Quick Installation Guide	1 pcs
Power Adapter	1 pcs



Wireless-Tek Technology Limited  
 Address: Building 3, Units 1801-1807, 1812, Huaqiang Era Plaza, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China.  
 Website: [www.wireless-tek.com](http://www.wireless-tek.com)  
 Tel: 86-0755-32811290  
 Email: [sales@wireless-tek.com](mailto:sales@wireless-tek.com)  
 Technical Support: [tech@wireless-tek.com](mailto:tech@wireless-tek.com)



Technical Support



Cloud Management



Company Website