Model: WR1300S 1.0

AC1200 Gigabit Mesh Wi-Fi Router with USB



Datasheet

Highlights

A dual-band AC1200 WiFi router with a USB port ideal for hosting an SMB server, streaming 4K, and connecting to a max 1000 Mbps internet access.

- 4-Stream Dual-Band Wi-Fi 5
- 867 Mbps + 300 Mbps Wi-Fi
- 5× Gigabit Ethernet Ports
- 4× High-Gain Antennas
- 50 Connected Devices
- 1× USB 3.0 Port
- Covers 100 m² (1,100 ft²)
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Actual wireless data throughput will vary as a result of network conditions, client limitations, and environmental factors including building layout, obstacles, and client location.

Actual performance for multiple devices may be affected by the types of applications used, the total available bandwidth, and the capabilities of your devices. Connecting older Wi-Fi devices (legacy standards) may reduce overall efficiency. Using efficiency features requires compatible client devices that also support those features. Find more information about supported efficiency features in the software section of the Specs spreadsheet.

The wireless coverage claim serves as a reference only. Coverage performance will vary due to environmental factors including building layout, obstacles, traffic volume and density, and device location. For optimal coverage, please place the device in a central location within the area requiring Wi-Fi.

Package Content

- WR1300S
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

Model Version	WR1300S 1.0	
CPU	CPU Details	880 MHz Dual-Core, MIPS1004Kc
Memory/Storage	Flash/ROM	16 MB (128 Mbit) NOR
	DDR/RAM	128 MB (1 Gbit) DDR3
Wireless	5 GHz Wi-Fi Speed	867 Mbps
	2.4 GHz Wi-Fi Speed	300 Mbps
	5 GHz Wi-Fi Streams	2 Spatial Streams
	Wi-Fi Antennas	4× Fixed
	FEM or PA/LNA	5 GHz: 2× Internal, 2.4 GHz: 2× Internal
	Beamforming	True

Wireless	Range Performance	Max: 170 m (558 ft) Tested in open-space environments with minimal interference. Actual WiFi range may vary depending on layout and wall materials. Refer to the Wall Performance specifications for placement suggestions.
	Wall Performance	Two wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 20 cm (7")
Interfaces	Gigabit RJ45 Ports	5
	Ethernet Notes	1× WAN port, the rest are LAN ports
	USB-A 3.0 Ports	1
Buttons and LEDs	LED	Power, Internet, WAN, LAN, 2.4 GHz Wi-Fi, 5 GHz Wi-Fi
	Physical Buttons	WPS Button, Reset Button

Hardware Specs

Power	Power Input Type	DC Jack
	Power Methods	DC
	Power Input	12V⎓1.5A
	Power Adapter In the Box	Input: 100-240V~, 50/60Hz Output: 12V⎓1.5A
Reliability	Environment	• Operating Temperature: 0 ℃ ~ 40 ℃ (32 ℉ ~104 ℉) • Storage Temperature: -40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉) • Humidity: 10% ~ 90% non-condensing • Storage Humidity: 5% ~ 95% non-condensing
Certifications	FCC, CE	
Mechanical	Installation	• Desktop • Wall-mount

Mechanical	Dimension	Device: 183.3×109×38 mm 7.22×4.29×1.5 inches Each Antenna: 175 mm 6.89 inches
	Product Weight	284.0 g (10.02 oz.)
Package Content	• WR1300S • Power Adapter • Ethernet Cable • Installation Guide	
Ordering Information	Retail Package Weight	EU: 729.4 g (25.73 oz.)
	Retail Package Dimension	330×256×60 mm 12.99×10.08×2.36 inches
	Units per Carton	10
	Carton Dimension	52.8×31.7×34.7 cm 20.79×12.48×13.66 inches
	Carton Gross Weight	EU: 8.0 kg (17.64 lbs)
	Carton Net Weight	EU: 7.29 kg (16.07 lbs)

Software Specs

Model Version	WR1300S 1.0	
Wireless	Wi-Fi Standards	Wi-Fi 5
	Max Wi-Fi Modulation	256-QAM
	Wi-Fi Efficiency	MU-MIMO
	Wi-Fi Efficiency Note	MU-MIMO available on 5 GHz
	Max Capacity	128
	Recommended Client Upper Limit	50
	Wi-Fi Channel Width	Auto/20/40/80 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	Separate Client	True
	WPS	True

General	Operation Modes	• Wi-Fi Router • Access Point • Range Extender • WISP • Client
	Mesh	Cudy Mesh
	Mesh Backhaul	• Wireless Backhaul • Wired Backhaul
	Multi-Band Backhaul	True
	WAN Mode	• DHCP • Static IP • PPPOE • PPTP • L2TP
Network	QoS	Per-User Rate Limiting
	DHCP	• Address Reservation • DHCP Client List • Server
	IP Versions	IPv4/IPv6

Software Specs

Network	IPv6 Protocols	• Relay • Dynamic (SLAAC/DHCPv6) • Static (Fixed IP) • Passthrough • 464XLAT • MAP-E • DS-Lite
	Multicast	True
	IPTV/VLAN	• Bridge • Tag VLAN • VoIP VLAN • IPTV VLAN
	TTL Customization	• Extend • Spoof • Custom
	IGMP	• IGMP Proxy • IGMP Snooping
	Forwarding	• Port Forwarding • Port Triggering • UPnP • DMZ

Network	Firewall	• SPI Firewall • DoS Protection • Block PING
	Application Layer Gateway	• IPSec Passthrough • L2TP Passthrough • PPTP Passthrough • FTP Passthrough • TFTP Passthrough • H323 Passthrough • SIP Passthrough • RTSP Passthrough
Utilities	VPN Server	• WireGuard • OpenVPN • IPsec • Zerotier • PPTP • L2TP
	VPN Client	• WireGuard • OpenVPN • IPsec • Zerotier • PPTP • L2TP

Software Specs

Utilities	VPN Performance	• OpenVPN Client (UL/DL): 22 / 24.7 Mbps • OpenVPN Server (UL/DL): 22 / 20.9 Mbps • WireGuard Client (UL/DL): 142 / 233.9 Mbps • WireGuard Server (UL/DL): 213 / 152 Mbps
	DNS Options	• DNS over TLS • Manual DNS • Rebind Protection • Override Clients' DNS
	DNS over TLS Providers	• Cloudflare • Google • Quad9 • Custom
	USB Functions	Samba Server
	Wake on LAN	True
	Online Detection	True
	Max Concurrent VPN Tunnels	• IPSec: 20 • PPTP/L2TP: 16 • OpenVPN: 16

Management	Parental Controls	• Profiles Settings • Offline Time • Online Time • Pause the Internet • Web Filter
	All Devices Management	• Wi-Fi Time Schedule • MAC Filter • IP/MAC Binding
	Per-Devices Management	• Internet On/Off • VPN On/Off • Online Time Schedule • Device Rename
	Content Management	• Domain Filtering • IP Filtering
System	Local Control Method	• Config Web Page • App Control
	Remote Control Method	• Config Page via HTTPS • App Control • TR069/TR098/TR111/TR143/TR181/TR369

Software Specs

System	Firmware Upgrade	• Local Update • App (Over the Air) • Online Update
	Reliability	• Timed Reboot • Backup and Restore
	Diagnostic Tools	• Diagnosis • Ping • Traceroute • NSLookup • System Log

System	Languages	• English • Bengali • Catalan • Czech • German • Greek • Spanish • French • Hebrew • Croatian • Hungarian • Italian • Japanese • Khmer • Korean • Dutch • Norwegian • Polish • Portuguese • Romanian • Russian • Slovak • Swedish • Thai • Turkish • Ukrainian • Vietnamese • Simplified Chinese • Traditional Chinese

Software Specs

Dashboard	Panel	• Internet Status • Mesh Status • Devices Management • WAN Status • LAN Status • WISP Status • Wi-Fi Status • VPN Status • DHCP Server Status • System Version
	Charts	• Mesh Topology • Internet Speed • WISP Speed • Wi-Fi Speed