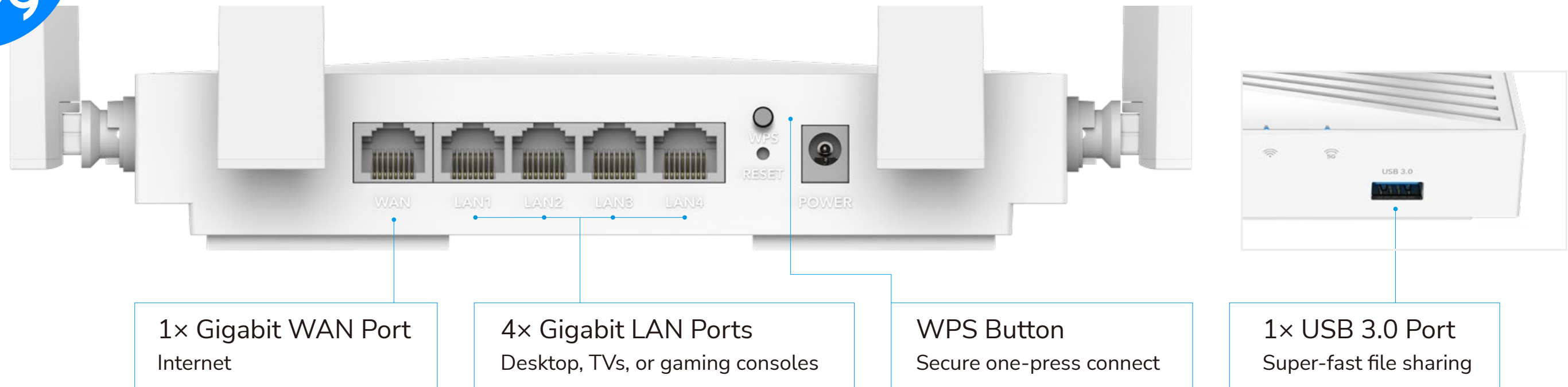


Model: WR1300S

# AC1200

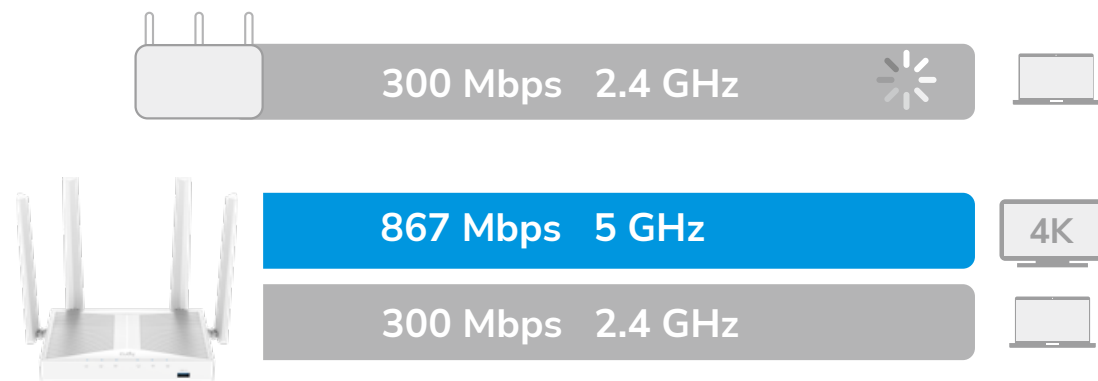
## Gigabit Mesh Wi-Fi Router with USB





## Responsive Dual-Band Wi-Fi with MU-MIMO

Use the less congested 5 GHz band to achieve speeds more than twice as fast and responsive compared to legacy single-band routers. MU-MIMO enables simultaneous transmission to multiple clients, reducing latency.



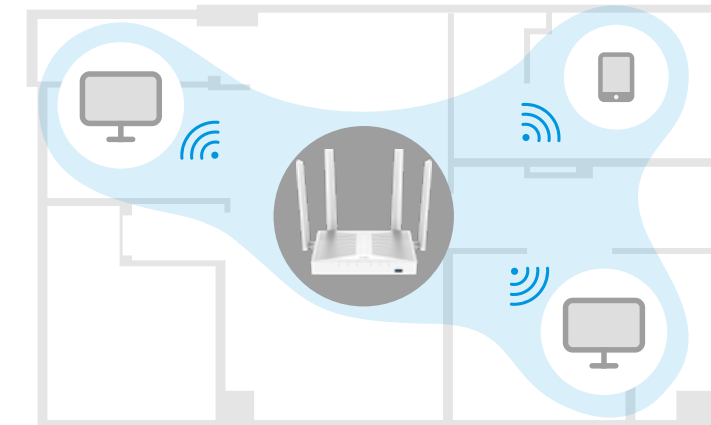
## Build Secure File Station with VPN and USB

Connect back home securely and access your drive conveniently, via six popular VPN protocols and the super-fast USB 3.0 port.



## Direction Detected, Signal Boosted

Beamforming detects the direction of connected devices and forms a focused signal towards them to improve coverage performance.



## Easily Build a Whole-Home Network

Advanced Cudy Mesh system, seamlessly connects your entire home with reliable Wi-Fi.





# 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 100m² (1,100 ft²)
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

# Package Content

- WR1300S
- Power Adapter
- Ethernet Cable
- Installation Guide

# Hardware Features

CPU	Chipset	MT7621
	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	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4× Fixed
	5 GHz Antenna Gain Max	5dBi
	2.4 GHz Antenna Gain Max	5dBi
	FEM or PA/LNA	5 GHz: 2× Internal
		2.4 GHz: 2× Internal
	Beamforming	True
	Range Performance	Max: 170 m (558 ft)
		Indoor WiFi range varies depending on the layout and wall materials. See Wall Performance spec for placement suggestions.
	Wall Performance	Two wooden walls with thickness < 10 cm (4")
		One concrete wall with thickness < 20 cm (7")



# Hardware Features

Interfaces	Gigabit RJ45 Ports	5
	Ethernet Notes	1× WAN port, the rest are LAN ports
	USB	1× USB 3.0 Port
	LED	• Power
		• Internet
		• WAN
		• LAN
		• 2.4 GHz Wi-Fi
• 5 GHz Wi-Fi		
Physical Buttons	• WPS Button	
	• Reset Button	
Power Input	DC Jack	
Power	Power Methods	• DC
	DC	12V 1.5A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC Output: 12V 1.5A DC
Reliability	Environment	Operating Temperature:
		0 °C ~ 40 °C (32 °F ~104 °F)
		Storage Temperature:
		-40 °C ~ 70 °C (-40 °F ~ 158 °F)
		Humidity: 10% ~ 90% non-condensing
		Storage Humidity: 5% ~ 95% non-condensing

Certifications	FCC, CE	
Mechanical	Installation	Desktop
		Wall-mount
	Dimension	Device:
		183.3×109×38 mm
		7.22×4.29×1.5 inches
		Antenna Length:
		175 mm
		6.89 inches
	Product Weight	
	284.0 g (10.02 oz.)	
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 Features

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
	Max Wi-Fi Channel Width	80 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	WPS	True
General	Operation Modes	<ul style="list-style-type: none"><li>• Wi-Fi Router</li><li>• Access Point</li><li>• Range Extender</li><li>• WISP</li><li>• Client</li></ul>
	Mesh	Cudy Mesh
	Mesh Backhaul	<ul style="list-style-type: none"><li>• Wireless Backhaul</li><li>• Wired Backhaul</li></ul>
	Multi-Band Backhaul	true
	WAN Mode	DHCP
		Static IP
		PPPOE
		PPTP
		L2TP

General	Internet Failover Sequence	<ul style="list-style-type: none"><li>• WAN</li><li>• WISP</li></ul>
Network	QoS	Per-User Rate Limiting
	DHCP	Address Reservation
		DHCP Client List
		Server
	IP Versions	IPv4/IPv6
	IPv6 Protocols	Relay
		Dynamic (SLAAC/DHCPv6)
		Static (Fixed IP)
		Passthrough
		464XLAT
		MAP-E
		DS-Lite
	IPTV/VLAN	Bridge
		Tag VLAN
		VoIP VLAN
		IPTV VLAN
	TTL Customization	Extend
		Spoof
		Custom
	IGMP	IGMP Proxy
		IGMP Snooping



# Software Features

Network	Forwarding	Port Forwarding
		Port Triggering
		UPnP
		DMZ
	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

Utilities	VPN Client	WireGuard
		OpenVPN
		IPsec
		Zerotier
		PPTP
		L2TP
	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



# Software Features

Utilities	Max Concurrent VPN Tunnels	IPSec: 20
		PPTP/L2TP: 16
		OpenVPN: 16
General	Max Concurrent Sessions	25000
Management	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 Filter
		IP Filter
System	Local Control Method	Config Web Page
		App Control
	Remote Control Method	Config Page via HTTPS
		App Control
		TR069/TR098/TR111/TR181
	Firmware Upgrade	Local Update
		App (Over the Air)
		Online Update
	Reliability	Timed Reboot
		Backup and Restore

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