cudy

Model: WR300S

300 Mbps
Multi-Mode Wi-Fi Router

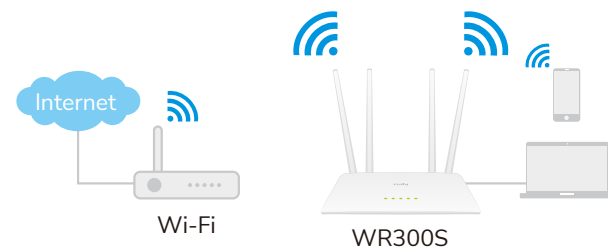Power   Desktop   Game Console   WAN   RST/WPS
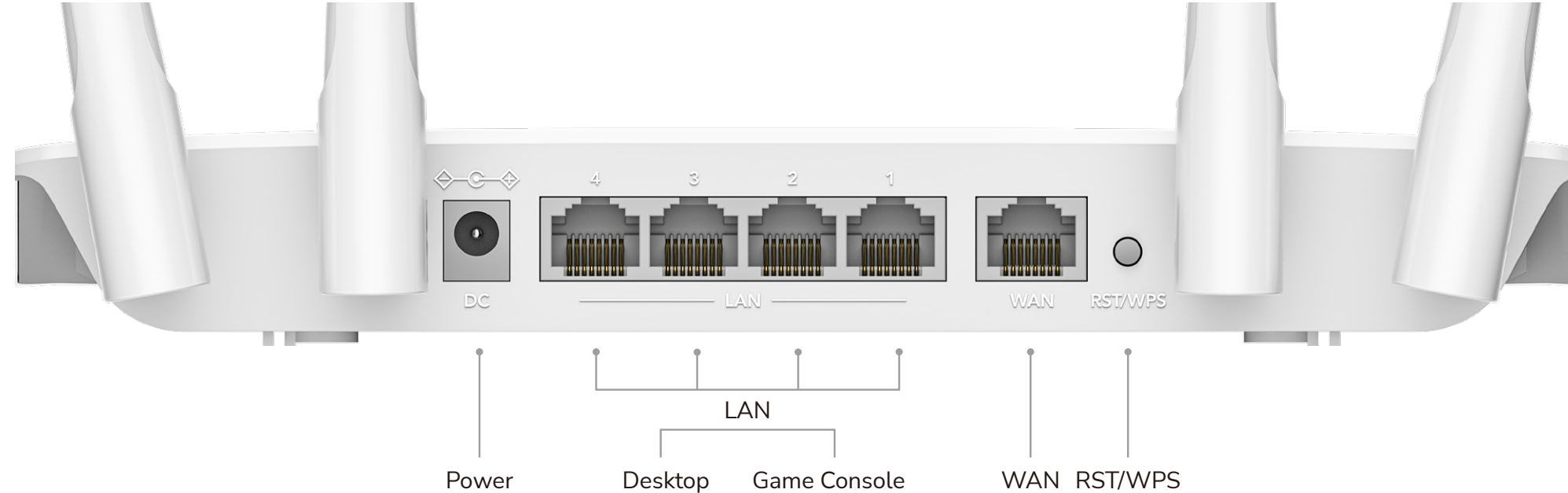
5-IN-1 Wi-Fi Router / Wi-Fi Extender / Access Point / WISP / Client Modes

WR300S is a high speed 5-in-1 multi-function router that can be used as a Wi-Fi router, Wi-Fi extender, access point, WISP or client to meet any needs of your network applications.
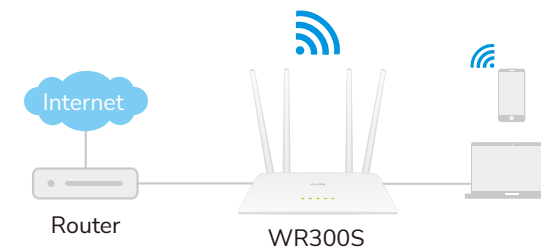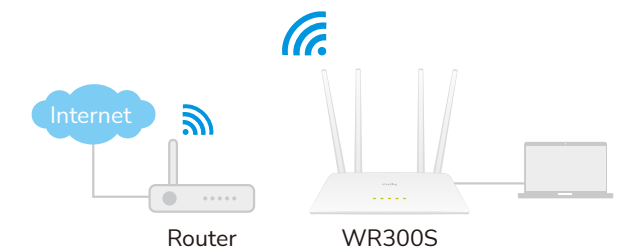
Wi-Fi Router

Internet — Modem — WR300S

Wi-Fi Extender / WISP

Internet — Wi-Fi — WR300S

Access Point
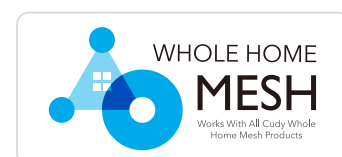
Internet — Router — WR300S

Client

Internet — Router — WR300S

Mesh Satellite

When operating in AP or extender mode and paired with a Cudy Mesh router, the WR300S enables fast roaming, providing uninterrupted and seamless Wi-Fi expansion.

WHOLE HOME **MESH**
Works With All Cudy Whole Home Mesh Products

Pre-installed VPN Clients

With built-in VPN clients, this router can easily establish a connection to VPN server to transport all your online data and traffic, securing it with its encryption at the same time.

WIREGUARD
WireGuard® is a registered trademark of Jason A. Donenfeld.

"WireGuard" and the "WireGuard" logo are registered trademarks of Jason A. Donenfeld.

PPTP

L2TP

Highlights

A WiFi router with five Ethernet ports and four antennas built for long-range coverage allows smooth video playback and a maximum of 100 Mbps internet access, featuring Cudy Mesh and local app control.

- 300 Mbps Wi-Fi
- 5× Fast Ethernet Ports
- Covers 90 m² (950 ft²)
- Router/AP/RE/WISP/Client/Mesh Modes
- VPN Client of WireGuard, PPTP, L2TP
- Cudy App

Package Content

- WR300S
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

CPU	Chipset	MT7628
	CPU Details	580 MHz Single-Core, MIPS24KEC
Memory/Storage	Flash/ROM	8 MB (64 Mbit) NOR
	DDR/RAM	64 MB (512 Mbit) DDR2
Wireless	2.4 GHz Wi-Fi Speed	300 Mbps
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4× Fixed
	FEM or PA/LNA	2.4 GHz: 2× Internal
	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")
Interfaces	10/100 Mbps RJ45 Ports	5
	Ethernet Notes	1× WAN port, the rest are LAN ports
	LED	• System
		• Wi-Fi
		• Internet
		• WAN
		• LAN
	Physical Buttons	Reset/WPS Button
	Power Input	DC Jack

Hardware Features

Power	Power Methods	DC
	DC	5V 1A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 5V 1A 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	220×135×30 mm
		8.66×5.31×1.18 inches
Ordering Information	Retail Package Dimension	290×250×64 mm
		11.42×9.84×2.52 inches
	Units per Carton	16
	Carton Dimension	53.8×51.6×31.3 cm
		21.18×20.31×12.32 inches

Software Features

Wireless	Wi-Fi Standards	Wi-Fi 4
	Max Wi-Fi Modulation	64-QAM
	Max Capacity	64
	Recommended Client Upper Limit	30
	Max Wi-Fi Channel Width	40 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz
	WPS	True
General	Operation Modes	Wi-Fi Router
		Access Point
		Range Extender
		WISP
		Client
	Mesh	Cudy Mesh
	Mesh Backhaul	Wireless Backhaul
		Wired Backhaul
	WAN Mode	DHCP
		Static IP
		PPPOE
		PPTP
		L2TP
	Internet Failover Sequence	WAN
		WISP

Software Features

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
	Forwarding	Port Forwarding
		Port Triggering

Network	Forwarding	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 Client	Wireguard
		PPTP
		L2TP
	DNS Options	DNS over TLS
		Manual DNS
		Rebind Protection
		Override Clients' DNS
	DNS over TLS Providers	Cloudflare
		Google
		Quad9
		Custom

Utilities	Wake on LAN	True
	Online Detection	True
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	LED Control	True
	Local Control Method	Config Web Page
		App Control
	Remote Control Method	Config Page via HTTPS
		TR069/TR098/TR111/TR181
	Firmware Upgrade	Local Update
	Reliability	Timed Reboot
		Backup and Restore
	Diagnostic Tools	Diagnosis
		Ping
		Traceroute
		NSLookup
		System Log

System	Languages	• English • German • Spanish • French • Hebrew
		• Italian • Korean • Russian • Portuguese
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