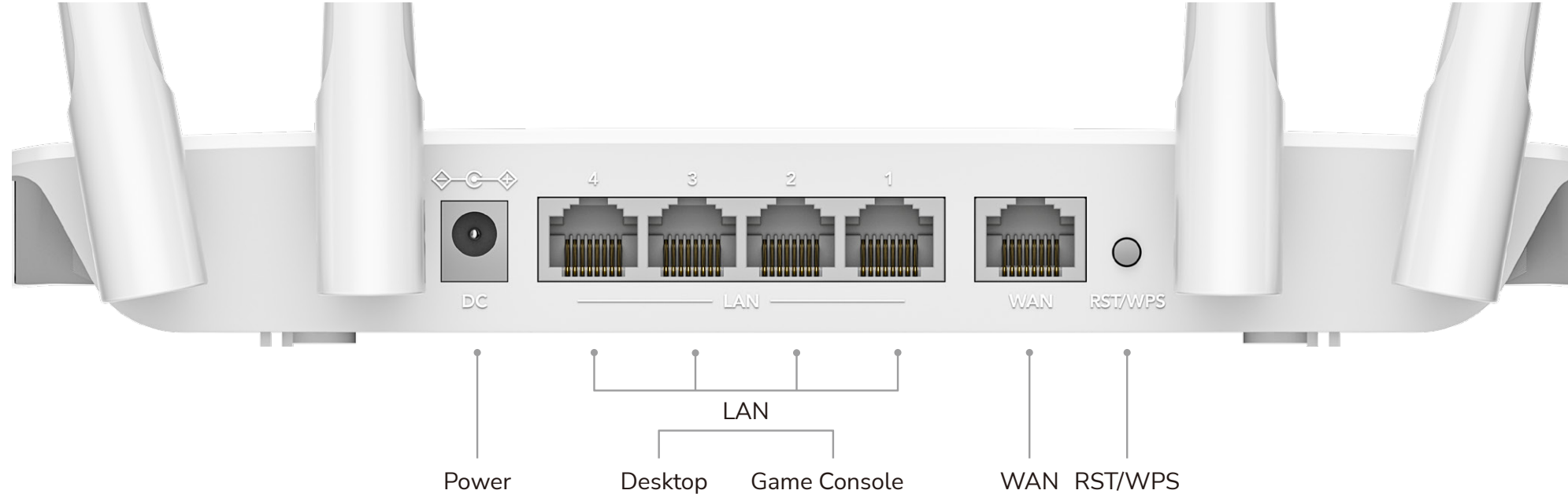


Model: WR300S

# 300 Mbps

## Multi-Mode Wi-Fi Router





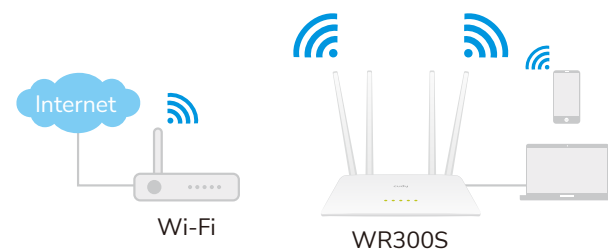
## 5-IN-1 Wi-Fi Router / Wi-Fi Extender / Access Point / WISP / Client Modes

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.

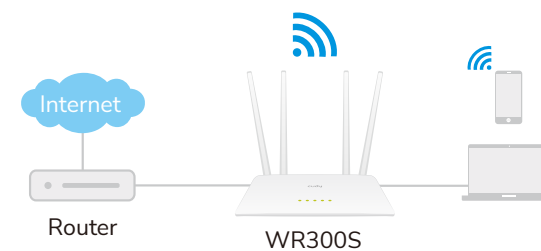
### Wi-Fi Router



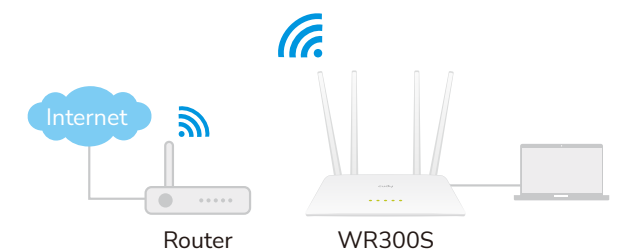
### Wi-Fi Extender / WISP



### Access Point

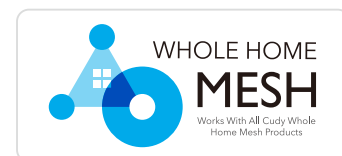


### Client



## 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.



## 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" 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")<br>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                    | <ul style="list-style-type: none"><li>• System</li><li>• Wi-Fi</li><li>• Internet</li><li>• WAN</li><li>• LAN</li></ul>   |
|                | 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<br>Output: 5V 1A DC      |
| Reliability          | Environment              | Operating Temperature:<br>0 °C ~ 40 °C (32 °F ~104 °F)   |
|                      |                          | Storage Temperature:<br>-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           |
| General  | WPS                            | True              |
|          | 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            |
|           |                           | IPSec Passthrough     |
|           | Application Layer Gateway | 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                                        |